JVC

SERVICE MANUAL

LCD INTEGRATED DIGITAL TV

LT-32D50BJ,
LT-32D50SJ

BASIC CHASSIS
FL





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No.YA206
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SPECIFICATION

Items		Contents
Dimensions (W × H × D)		83.4cm × 63.7 cm × 29.5 cm [Included stand] 83.4cm × 56.7 cm × 10.7 cm [TV only]
Mass		19.8kg [Included stand] 17.3kg [TV only]
Power Input		AC110V - AC240 V, 50 Hz / 60 Hz
Power Consumption		170W (Standby: 2.6W)
TV RF System	Analog	CCIR (B/G, I, D/K, L)
	Digital	DVB-T
Colour System		PAL, SECAM, NTSC 3.58/4.43 [EXT only]
Stereo System		NICAM (B/G, I, D/K, L), A2 (B/G, D/K)
Teletext System	Analog	FLOF (Fastext level 2.5), TOP, WST(World Standard system)
	Digital	MHEG 5 UK profile
Receiving Frequency	Analog	VHF: 47MHz - 470MHz UHF: 470MHz - 862MHz
	Digital	UHF: 474MHz - 850MHz
Intermediate Frequency	VIF SIF	38.9MHz (B/G, I, D/K, L) 33.4MHz (5.5MHz :B/G) 32.9MHz (6.0MHz :I) 32.4MHz (6.5MHz :D/K)
Colour Sub Carrier Frequency	PAL	4.43MHz
	SECAM	4.40625MHz / 4.25MHz
	NTSC	3.58MHz / 4.43MHz
LCD panel		32V-inch wide aspect (16:9)
Screen Size		Diagonal : 80cm (H:69.7cm × V : 39.2cm)
Display Pixels		Horizontal : 1366 dots × Vertical : 768 dots (W-XGA)
Audio Power Output		10W + 10W
Speaker		6.6cm, round type × 2 (Oblique corn)
Aerial terminal (VHF/UHF)	Analog	75 Ω unbalanced, coaxial
	Digital	75 Ω unbalanced, coaxial
EXT-1 / EXT-2 (Input / Output)		21-pin Euro connector (SCART socket) × 2
EXT-3 (Input)	S-Video	Mini-DIN 4 pin × 1 Y: 1V (p-p), Positive (Negative sync provided), 75 Ω C: 0.286V (p-p) (Burst signal), 75 Ω
	Video	1V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 1
	Audio	500mV (rms), High impedance, RCA pin jack × 2
EXT-4 (Input)	Component Video	RCA pin jack × 3
	1125i	Y : 1V (p-p) (Sync signal: ±0.35V(p-p), 3-value sync.), 75Ω Pb/Pr : ±0.35V(p-p), 75 Ω
	625p / 525p / 625i / 525i	Y : 1V (p-p), Positive (Negative sync provided), 75 Ω Cb/Cr : 0.7V(p-p), 75 Ω
	Audio	500mV(rms) (-4dBs), high impedance, RCA pin jack × 2
PC (RGB) Input		D-sub 15pin × 1 R/G/B : 0.7V (p-p), 75Ω HD / VD : 1V (p-p) to 5V (p-p), high impedance < Available signal > VGA : 640 pixels × 480 pixels (Horizontal : 31.5kHz / Vertical : 60Hz) XGA : 1024 pixels × 768 pixels (Horizontal : 48.4kHz / Vertical : 60Hz)
Audio output		500mV (rms), Low impedance, RCA pin jack × 2
Headphone		3.5mm stereo mini jack × 1
Remote Control Unit		RM-C1813H (AA/R6 dry cell battery × 2)

Design & specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 SAFETY PRECAUTIONS

(1) The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessary be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may cause shock, fire, or other hazards.

(4) The leads in the products are routed and dressed with ties, clamps, tubing's, barriers and the like to be separated from live parts, high temperature parts, moving parts and / or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

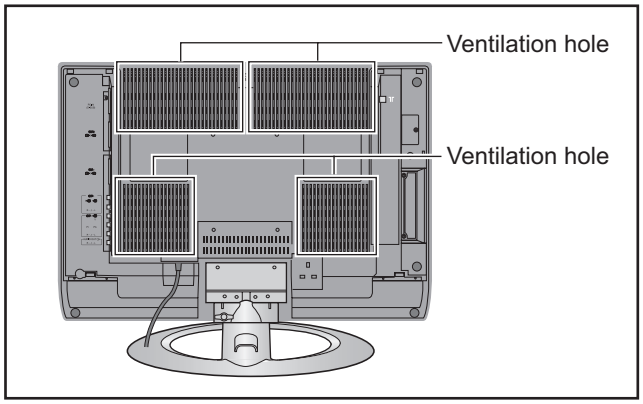
WARNING

(1) The equipment has been designed and manufactured to meet international safety standards.
(2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(3) Repairs must be made in accordance with the relevant safety standards.
(4) It is essential that safety critical components are replaced by approved parts.
(5) If mains voltage selector is provided, check setting for local voltage.

1.2 INSTALLATION

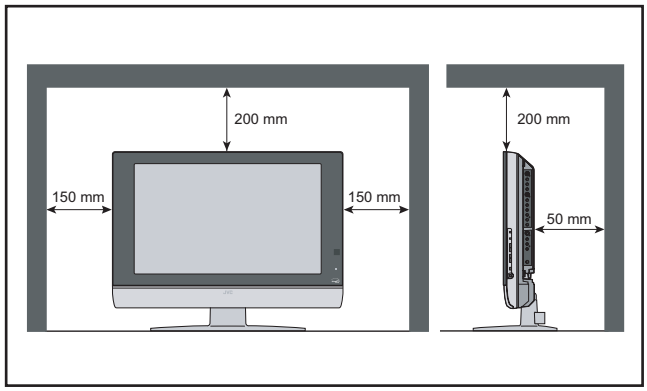
1.2.1 HEAT DISSIPATION

If the heat dissipation vent behind this unit is blocked, cooling efficiency may deteriorate and temperature inside the unit will rise. The temperature sensor that protects the unit will be activated when internal temperature exceeds the pre-determined level and power will be turned off automatically.Therefore, please make sure pay attention not to block the heat dissipation vent as well as the ventilation outlet behind the unit and ensure that there is room for ventilation around it.



1.2.2 INSTALLATION REQUIREMENTS

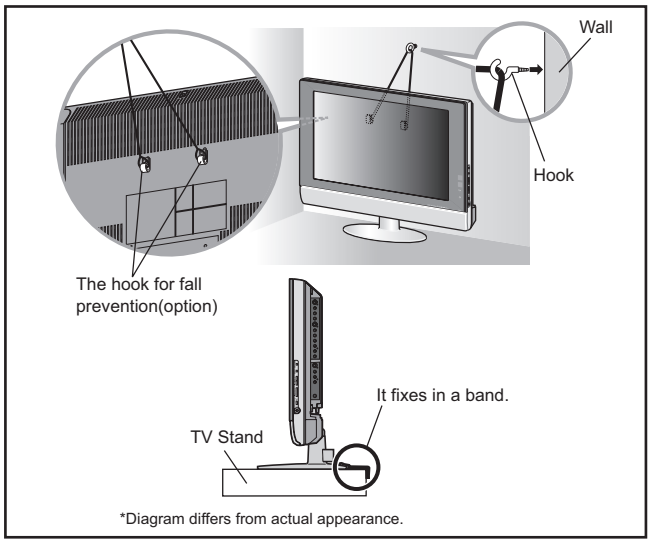
Ensure that the minimal distance is maintained, as specified below, between the unit with and the surrounding walls, as well as the floor etc.Install the unit on stable flooring or stands.Take precautionary measures to prevent the unit from tipping in order to protect against accidents and earthquakes.



1.2.3 INSTALLATION REQUIREMENTS

To ensure safety in an emergency such as an earthquake, and to prevent accidents, ensure that measures are taken to prevent the TV dropping or falling over.

Use the supplied screws to firmly attach the supplied hooks (OPTION) to the back of the TV, and use commercially available cord to fix the TV to rigid components such as walls and columns.



1.2.4 NOTES ON HANDLING

(1) WHEN TAKING UNIT OUT OF A PACKING CASE

When taking the unit out of a packing case, do not grasp the upper part of the unit. If you take the unit out while grasping the upper part, the LCD PANEL may be damaged because of a pressure. Instead of grasping the upper part, put your hands on the lower backside or sides of the unit.

(2) AS FOR PRESSING OR TOUCHING A SPEAKER

Be careful not to press the opening of the speaker in the lower part of the unit and around them since the decorative sheet on the surface of the openings may be deformed.

1.3 HANDLING LCD PANEL

1.3.1 PRECAUTIONS FOR TRANSPORTATION

When transporting the unit, pressure exerted on the internal LCD panel due to improper handling (such as tossing and dropping) may cause damages even when the unit is carefully packed. To prevent accidents from occurring during transportation, pay careful attention before delivery, such as through explaining the handling instructions to transporters.

Ensure that the following requirements are met during transportation, as the LCD panel of this unit is made of glass and therefore fragile:

(1) USE A SPECIAL PACKING CASE FOR THE LCD PANEL
When transporting the LCD panel of the unit, use a special packing case (packing materials). A special packing case is used when a LCD panel is supplied as a service spare part.

(2) ATTACH PROTECTION SHEET TO THE FRONT
Since the front (display part) of the panel is vulnerable, attach the protection sheet to the front of the LCD panel before transportation. Protection sheet is used when a LCD panel is supplied as a service spare part.

(3) AVOID VIBRATIONS AND IMPACTS
The unit may be broken if it is toppled sideways even when properly packed. Continuous vibration may shift the gap of the panel, and the unit may not be able to display images properly. Ensure that the unit is carried by at least 2 persons and pay careful attention not to exert any vibration or impact on it.

(4) DO NOT PLACE EQUIPMENT HORIZONTALLY
Ensure that it is placed upright and not horizontally during transportation and storage as the LCD panel is very vulnerable to lateral impacts and may break. During transportation, ensure that the unit is loaded along the traveling direction of the vehicle, and avoid stacking them on one another. For storage, ensure that they are stacked in 2 layers or less even when placed upright.

1.3.2 OPTICAL FILTER (ON THE FRONT OF THE LCD PANEL)

(1) Avoid placing the unit under direct sunlight over a prolonged period of time. This may cause the optical filter to deteriorate in quality and COLOUR.

(2) Clean the filter surface by wiping it softly and lightly with a soft and lightly fuzz cloth (such as outing flannel).

(3) Do not use solvents such as benzene or thinner to wipe the filter surface. This may cause the filter to deteriorate in quality or the coating on the surface to come off. When cleaning the filter, usually use the neutral detergent diluted with water. When cleaning the dirty filter, use water-diluted ethanol.

(4) Since the filter surface is fragile, do not scratch or hit it with hard materials. Be careful enough not to touch the front surface, especially when taking the unit out of the packing case or during transportation.

1.3.3 PRECAUTIONS FOR REPLACEMENT OF EXTERIOR PARTS

Take note of the following when replacing exterior parts (REAR COVER, FRONT PANEL, etc.):

(1) Do not exert pressure on the front of the LCD panel (filter surface). It may cause irregular COLOUR.

(2) Pay careful attention not to scratch or stain the front of the LCD panel (filter surface) with hands.

(3) When replacing exterior parts, the front (LCD panel) should be placed facing downward. Place a mat, etc. underneath to avoid causing scratches to the front (filter surface).

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 FEATURES

DVB-T (DIGITAL TERRESTRIAL BROADCASTING)
This TV can receive both Digital terrestrial broadcasting (DVB-T) and Analogue terrestrial broadcasting.

D.I.S.T. (Digital Image Scaling Technology)
This system uses line interpolation to double the number of scanning lines and achieve high resolution, flicker-free picture.

COLOUR MANAGEMENT
This function ensures dull colours are compensated to produce natural hues.

PICTURE MANAGEMENT
This function makes it easier to see the dark areas when a picture has many dark areas, and makes it easier to see the bright areas when a picture has many bright areas.

ZOOM
This function can change the screen size according to the picture aspect ratio.

DIGITAL VNR
This function cuts down the amount of noise in the original picture.

SUPER DIGIPURE
This function uses the latest in digital technology to give you a natural-looking picture.

MOVIE THEATRE
This function displays a cinema film picture more smoothly and naturally on the screen.

3D CINEMA SOUND
You can enjoy sounds with a widerambience.

2.2 MAIN DIFFERENCE LIST

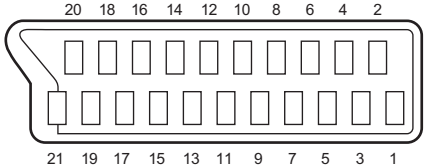
Item	LT-32D50BJ	LT-32D50SJ
FRONT PANEL COLOUR	BLACK	SILVER

2.3 21-PIN EURO CONNECTOR (SCART) : EXT-1 / EXT-2

Pin No.	Signal designation	Matching value	EXT-1	EXT-2
1	AUDIO R output	500mV(rms) (Nominal), Low impedance	Used (TV OUT)	Used (LINE OUT)
2	AUDIO R input	500mV(rms) (Nominal), High impedance	Used (R1)	Used (R2)
3	AUDIO L output	500mV(rms) (Nominal), Low impedance	Used (TV OUT)	Used (LINE OUT)
4	AUDIO GND		Used	Used
5	GND (B)		Used	Used
6	AUDIO L input	500mV(rms) (Nominal), High impedance	Used (L1)	Used (L2)
7	B input	$700mV_{(B-W)}$, 75Ω	Used	Used
8	FUNCTION SW (SLOW SW)	Low : 0V-3V High : 8V-12V, High impedance	Used	Used
9	GND (G)		Used	Used
10	SCL / T-V LINK		Not used	Used (SCL2 / TV-LINK)
11	G input	$700mV_{(B-W)}$, 75Ω	Used	Used
12	SDA		Not used	Used (SDA2)
13	GND (R)		Used	Used
14	GND (YS)		Used	Not used
15	R / C input	R : $700mV_{(B-W)}$, 75Ω C : $300mV_{(P-P)}$, 75Ω	Used (R)	Used (C2/R)
16	Ys input (FAST SW)	Low : 0V-0.4V, High : 1V-3V, 75Ω	Used	Used
17	GND (VIDEO output)		Used	Used
18	GND (VIDEO input)		Used	Used
19	VIDEO output	$1V_{(P-P)}$ (Negative sync), 75Ω	Used (TV OUT)	Used (LINE OUT)
20	VIDEO / Y input	$1V_{(P-P)}$ (Negative sync), 75Ω	Used	Used
21	COMMON GND		Used	Used

(P-P= Peak to Peak, B-W= Blanking to white peak)

[Pin assignment]



2.4 TECHNICAL INFORMATION

2.4.1 LCD PANEL

This unit uses the flat type panel LCD (Liquid Crystal Display) panel that occupies as little space as possible, instead of the conventional CRT (Cathode Ray Tube), as a display unit.
Since the unit has the two polarizing filter that are at right angles to each other, the unit adopts "normally black" mode, where light does not pass through the polarizing filter and the screen is black when no voltage is applied to the liquid crystals.

2.4.1.1 SPECIFICATIONS

The following table shows the specifications of this unit.

Item	Specifications	Remarks
Maximum dimensions (W × H × D)	761mm × 451mm × 51mm	
Weight	8.0kg	
Effective screen size	Diagonal: 800.4mm (H:697.7mm × V : 392.3mm)	32V type
Aspect ratio	16 : 9	
Drive device / system	a-Si-TFT, active matrix system	
Resolution	Horizontally 1366 × Vertically 768 × RGB <W-XGA>	3147264 dots in total
Pixel pitch (pixel size)	Horizontally:0.51075mm, Vertically:0.51075mm	
Displayed colour	16777216 colours	256 colours for R, G, and B
Brightness	500cd/m^2	
Contrast ratio	1000: 1	
Response time	8ms	
View angle	Horizontally: 170°, Vertically: 170°	
Surface polarizer	Anti-Glare type, Low reflective coat	
Colour filter	Vertical stripe	
Backlight	Dyrect-type Cold cathode fluorescent lamp × 16	
Power supply voltage in LCD	6.5V	
Power supply voltage in inverter	18V	
Panel interface system	LVDS (Low Voltage Differential Signaling)	

2.4.1.2 PIXEL FAULT

There are three pixel faults - bright fault , dark fault and flicker fault - that are respectively defined as follows.

■ **BRIGHT FAULT**

In this pixel fault, a cell that should not light originally is lighting on and off.
For checking this pixel fault, input ALL BLACK SCREEN and find out the cell that is lighting on and off.

■ **DARK FAULT**

In this pixel fault, a cell that should light originally is not lighting or lighting with the brightness twice as brighter as originally lighting.
For checking this pixel fault, input 100% of each R/G/B colour and find out the cell that is not lighting.

■ **FLICKER FAULT**

In the pixel fault, a cell that should light originally or not light originally is flashing on and off.
For checking this pixel fault, input ALL BLACK SCREEN signal or 100% of each RGB colour and find out the cell that is flashing on and off.

2.4.2 MAIN CPU PIN FUNCTION [IC7501 : DIGITAL SIGNAL PWB ASS'Y]

Pin	Pin name	I/O	Function	Pin	Pin name	I/O	Function
1	TCK	I	Test purpose	65	D2	I/O	Program ROM data for main CPU
2	TMS	I	Test purpose	66	D12	I/O	Program ROM data for main CPU
3	TDI	I	Test purpose	67	D10	I/O	Program ROM data for main CPU
4	TDO	O	Test purpose	68	VSS33	-	GND
5	P2.8	O	Not used	69	VDD33	I	3.3V
6	P2.9	O	Blue for OSD	70	D4	I/O	Program ROM data for main CPU
7	P2.10	O	Blue for OSD	71	D3	I/O	Program ROM data for main CPU
8	P2.11	O	Blue for OSD	72	D11	I/O	Program ROM data for main CPU
9	P2.12	O	Blue for OSD	73	RSTIN	I	Reset
10	P2.13	O	Blue for OSD	74	POWER	O	Sleep state release for chassis CPU [Relese : L]
11	P2.14	I	Not used	75	P3.1	O	Not used
12	P2.15	O	Request for chassis CPU communication	76	REMOCON	I	Remote control
13	VSS33	-	GND	77	P3.3	I	Clock for OSD
14	VDD33	I	3.3V	78	P3.4	O	Red for OSD
15	P4.5	O	Not used	79	P3.5	O	Red for OSD
16	A20	O	Program ROM address for main CPU	80	P3.6	O	Red for OSD
17	A19	O	Program ROM address for main CPU	81	P3.7	O	Red for OSD
18	A18	O	Program ROM address for main CPU	82	MTST	O	Data transmission for chassis CPU communication
19	A17	O	Program ROM address for main CPU	83	MTSR	I	Data receive for chassis CPU communication
20	VSS25	-	GND	84	VSS33	-	GND
21	VDD25	I	2.5V	85	VDD33	I	3.3V
22	A16	O	Program ROM address for main CPU	86	VSS25	-	GND
23	A8	O	Program ROM address for main CPU	87	VDD25	I	2.5V
24	A7	O	Program ROM address for main CPU	88	TXD0	O	Communication for adjustment
25	A9	O	Program ROM address for main CPU	89	RXD0	O	Communication for adjustment
26	A6	O	Program ROM address for main CPU	90	P3.12	O	Red for OSD
27	A5	O	Program ROM address for main CPU	91	CLK	O	Clock for chassis CPU communication
28	A10	O	Program ROM address for main CPU	92	P3.15	O	Green for OSD
29	A11	O	Program ROM address for main CPU	93	P5.14	O	Green for OSD
30	A12	O	Program ROM address for main CPU	94	P5.15	O	Green for OSD
31	VSS33	-	GND	95	TRIG_IN	O	Green for OSD
32	VDD33	I	3.3V	96	TRIG_OUT	O	Green for OSD
33	A4	O	Program ROM address for main CPU	97	P6.2	O	Green for OSD
34	A3	O	Program ROM address for main CPU	98	P6.3	O	I^2C bus clock (for main memory)
35	A2	O	Program ROM address for main CPU	99	P6.4	I/O	I^2C bus Data (for main memory)
36	A1	O	Program ROM address for main CPU	100	P6.5	O	Teletext signal select [Analog RGB : H / Digital RGB : L]
37	A0	O	Program ROM address for main CPU	101	IRQ	O	Not used
38	A13	O	Program ROM address for main CPU	102	VSYNC	I	Vertical sync
39	ARAS/A14	O	Program ROM address for main CPU	103	HSYNC	I	Horizontal sync
40	CAS/A15	O	Program ROM address for main CPU	104	COR/RSTOUT	O	Not used
41	VSS33	-	GND	105	BLANK	O	Ys for OSD / Teletext
42	VDD33	I	3.3V	106	VDD33	I	3.3V
43	MEMCLK	O	Clock for memory	107	VSS33	-	GND
44	CSSDRAM	O	Chip select for memory	108	XTAL1	I	6MHz for system clock
45	CLKEN	O	Clock enable for memory	109	XTAL2	O	6MHz for system clock
46	CSROM	O	Chip select for memory	110	VSSA	-	GND
47	RD	O	Read for memory	111	VDDA	I	2.5V
48	UDQM	O	Control buffer of memory	112	R	O	R for OSD / Teletext
49	LDQM	O	Control buffer of memory	113	G	O	G for OSD / Teletext
50	WR	O	Write for memory	114	B	O	B for OSD / Teletext
51	D15	I/O	Program ROM data for main CPU	115	VSSA	-	GND
52	VSS33	-	GND	116	VDDA	I	2.5V
53	VDD33	I	3.3V	117	CVBS2	I	Video for Teletext
54	D7	I/O	Program ROM data for main CPU	118	VSSA	-	GND
55	D0	I/O	Program ROM data for main CPU	119	VDDA	I	2.5V
56	D14	I/O	Program ROM data for main CPU	120	CVBS1B	I	Video for Teletext
57	D8	I/O	Program ROM data for main CPU	121	CVBS1A	I	Video for Teletext
58	D6	I/O	Program ROM data for main CPU	122	VSSA	-	GND
59	D1	I/O	Program ROM data for main CPU	123	VDDA	I	2.5V
60	VSS33	-	GND	124	KEY1	I	Key scan data 1 [ON : H]
61	VDD33	I	3.3V	125	KEY2	I	Key scan data 2 [ON : H]
62	D13	I/O	Program ROM data for main CPU	126	MECA_SW	I	Main power ON / OFF control [ON : L]
63	D9	I/O	Program ROM data for main CPU	127	P5.3	I	Not used
64	D5	I/O	Program ROM data for main CPU	128	TMODE	I	Test purpose

2.4.3 SUB (CHASSIS) CPU PIN FUNCTION [IC7001 : DIGITAL SIGNAL PWB ASS'Y]

Pin	Pin name	I/O	Function	Pin	Pin name	I/O	Function
1	LB_PRO	O	Not used	51	BS_TXD	O	Data transmission for digital tuner communication
2	P_MU	O	Picture muting [Muting = H]	52	BS_RXD	I	Data receive for digital tuner communication
3	JP_CSB	O	Not used (NC)	53	NC	O	Not used (NC)
4	A_MU	O	Audio muting [Muting = H]	54	VREF+	I	3.3V power supply
5	M_MU	O	Audio muting (for AUDIO OUT) [Muting = H]	55	PDP_TX	O	Data transmission for SUB (DRIVE) CPU communication
6	PC_SEL	O	RGB(PC) INPUT select	56	PDP_RX	I	Data receive for SUB (DRIVE) CPU communication
7	ON_TIMER	O	POWER INDICATOR (LED) brightness [LOW = L]	57	SDA0	I/O	Data for Inter IC (serial) bus : EEP-ROM (IC7002)
8	ILA0	O	LCD back light lighting	58	SCL0	O	Clock for Inter IC (serial) bus : EEP-ROM (IC7002)
9	ILA1	O	LCD panel overshoot refresh timing	59	SDA_DVI	I/O	Not used : Data for Inter IC (serial) bus for panel communication
10	ILA2	O	Not used	60	SCL_DVI	O	Not used : Clock for Inter IC (serial) bus for panel communication
11	POW_LED	O	POWER LED lighting [ON = H]	61	AVSS	-	GND
12	WORD	O	Not used	62	DIGII_PHOT	I	Not used: Photo sensor for DIGITAL-IN illegal copy protection
13	MI_CK	I	Clock for main CPU communication	63	AGC	I	Not used
14	MI_TX	I	Data receive for main CPU communication	64	EXT_YS1	I	Not used
15	MI_RX	O	Data transmission for MAIN CPU communication	65	EXT_YS2	I	Not used
16	MI_REQ	O	Data request for main CPU communication [Request = L]	66	VDD	I	3.3V power supply
17	VDD	I	3.3V power supply	67	DIGI_PRO	O	Not used : For DIGITAL-IN (HDMI)
18	FOSC	O	Not used (NC)	68	GCR_RST	O	Not used (NC)
19	VSS	-	GND	69	GR_ON	O	Not used (NC)
20	X1	I	Not used : Low speed oscillatior	70	SYNC_SEL	O	Not used : Sync select for digital tuner
21	X0	O	Not used : Low speed oscillatior	71	NC	O	Not used (NC)
22	VDD	I	3.3V power supply	72	NC	O	Not used (NC)
23	OSC1	I	System clock osillation (crystal) : 16MHz	73	SBD5	I/O	Not used : Data for writing on board (connect CN01P : for Frash ROM type)
24	OSC0	O	System clock osillation (crystal) : 16MHz	74	SBT5	I	Not used : Clock for writing on board (connect CN01P : for Frash ROM type)
25	MODE	I	Single chip mode	75	NMI	I	3.3V power supply
26	BS1.5CTL	O	Digital tuner power / reset control	76	COMP	I	Not used : AV COMPULINK III control
27	A92RES	O	Reset for IC1001(3D YC SEP / COLOUR DEMODULAT) [Reset = H]	77	REMO	I	Remote control
28	BS_RST	O	Reset for Digital tuner power / reset control	78	VSYNC	I	V. sync pulse
29	LIP_RST	O	Reset for Sound delay (Lip sync)	79	WAKE	I	Reset for sub(chassis) CPU
30	SOFT_OFF	O	Not used	80	POWERGOOD	I	Power error detection [NG = H]
31	VMUTE	I	Picture muting request from digital tuner	81	NC	O	Not used (NC)
32	VOUTENB	O	Video cutoff for digital tuner	82	RST	I	Reset for MAIN CPU [Reset = L]
33	MDR_CON	I	Not used: System cable connection monitor for PDP	83	VDD	I	3.3V power supply
34	AVDD	I	3.3V power supply	84	SCL3A	O	Clock for Inter IC (serial) bus control
35	BS_POW	O	Digital tuner power control	85	SDA3A	I/O	Data for Inter IC (serial) bus control
36	DsyncSW2	O	Sync select for DIGITAL-IN [Cotrolled with 99-pin]	86	SCL3B	O	Clock for Inter IC (serial) bus control
37	LB_POW	O	Power control for low bias line	87	SDA3B	I/O	Data for Inter IC (serial) bus control
38	NC	O	Not used (NC)	88	DIGI_SYNCSEL	O	Not used
39	HOTPLUG	I	Not used : Video communiation monitor for receiver unit (PDP)	89	DIGI_LRSW	O	Not used : For DIGITAL-IN (HDMI)
40	MECA_SW	I	Mechanical monitor for POWER switch [Push = L]	90	DIGI_INT	I	Not used : Reset for HDMI process [Reset = L]
41	MAIN_POW	O	Main power control [ON = L]	91	DVI_RST	O	Not used : Reset for DVI format conversion
42	MSP_RST	O	AUDIO OUT output mode select [VARIABLE = L]	92	VSS	-	GND
43	VREF-	I	Not used	93	SCL5055	O	Clock for Inter IC (serial) bus : JCC5055 (DIST process)
44	AFT2	I	Not used : AFT voltage for sub tuner	94	VFORMATSEL	O	Digital tuner clock control
45	AFT1	I	AFT voltage for VHF/UHF tuner	95	SDA5055	I/O	Data for Inter IC (serial) bus : JCC5055 (DIST process)
46	KEY2	I	Key scan data for front switch (MENU/CH+/CH-)	96	OSD_MODE_SEL	O	Not used : OSD mode select
47	KEY1	I	Key scan data for front switch (VOL+/VOL-)	97	NC	O	Not used (NC)
48	NC	O	Not used (NC)	98	15K/OTH	O	Main video select [Fixed = H]
49	NC	O	Not used (NC)	99	DsyncSW1	O	Not used : Sync select for DIGITAL-IN [Cotrolled with 36-pin]
50	AC_IN	I	AC power pulse for timer clock	100	57 BUSY	I	Busy monitor for JCC5057 (New DIST process)

SECTION 3
DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

NOTE:

- Make sure that the power cord is disconnected from the outlet.
- Pay special attention not to break or damage the parts.
- When removing each board, remove the connectors as required. Taking notes of the connecting points (connector numbers) makes service procedure manageable.
- Make sure that there is no bent or stain on the connectors before inserting, and firmly insert the connectors.

3.1.1 REMOVING THE STAND (Fig.1)

(1) Remove the 2 screws **[A]**, then remove the STAND COVER.
(2) Remove the 4 screws **[B]**, then remove the STAND.

3.1.2 REMOVING THE REAR COVER (Fig.1)

- Remove the STAND.
  (1) Remove the JACK COVER (L/R).
  (2) Remove the 7 screws **[C]**, the 4 screws **[D]**, and the 1 screw **[E]**.
  (3) Remove the REAR COVER.

3.1.3 REMOVING THE POWER PWB / REGULATOR PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 5 screws **[F]**, then remove the FAN BRACKET.
  (2) Remove the 1 screw **[G]**, then remove the POWER CORD HOLDER.
  (3) Remove the POWER CORD from the POWER PWB.
  (4) Remove the REGULATOR PWB.
  (5) Remove the 5 screw **[H]**, then remove the POWER PWB.

3.1.4 REMOVING THE ANALOG SYGNAL PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
  (1) Remove the 3 screws **[J]** then remove the TERMINAL BASE.
  (2) Remove the 6 screws **[K]** and the 2 hex screws **[Y]** then remove the ANALOG SYGNAL PWB.

3.1.5 REMOVING THE FRONT CONTROL PWB CONTROL / FRONT SENSOR PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 2 screws **[L]**, then remove the CONTROL KNOB ASSY.
  (2) Remove the 2 screws **[M]**, then remove the FRONT CONTROL PWB.
  (3) Remove the FRONT SENSOR PWB.

3.1.6 REMOVING THE RECEIVER PWB / CONNECTOR PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 3 screws **[U]**, then remove the TUNER BASE and SIDE SHIELD CASE.
  (2) Remove the 4 screws **[O]** then remove the RECEIVER PWB.
  (3) Remove the 4 screws **[P]** then remove the RECEIVER PWB BRACKET.
  (4) Remove the 2 screws **[Q]** then remove the CONNECTOR PWB.

3.1.7 REMOVING THE DIGITAL TUNER UNIT / DIGITAL SIGNAL PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the TUNER BASE.
  (1) Remove the 9 screws **[S]** and the 3screws **[T]**, then remove the SHIELD COVER.
  (2) Remove the 5 screws **[V]**, then remove the DIGITAL SIGNAL PWB.
  (3) Remove the 3 screws **[W]** then remove the DIGITAL TUNER BRACKET.
  (4) Remove the 2 screws **[X]** then remove the TOP SHIELD CASE.
  (5) Remove the DIGITAL SIGNALPWB.

3.1.8 REMOVING THE SPEAKER (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 5 screws **[a]**, then remove the SPEAKER BOX.
  (2) Remove the 4 screws **[b]**, then remove the SPEAKER (L /R).
  (3) Remove the 4 screws **[c]**, then remove the DUCT(L/R).

NOTE:

Since the speaker is attached in a certain direction, attach the speaker in the same correct direction as it has been attached.

3.1.9 REMOVING THE LCD PANEL UNIT (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 6 screws **[d]**.
  (2) Remove the LCD PANEL UNIT.
  (3) Remove the 7 screws **[f]**. then remove the MAIN BASE.
  (4) Remove the 2 screws **[g]**. then remove the TOP FRAME.
  (5) Remove the 2 screws **[h]**. then remove the BOTTOM FRAME.

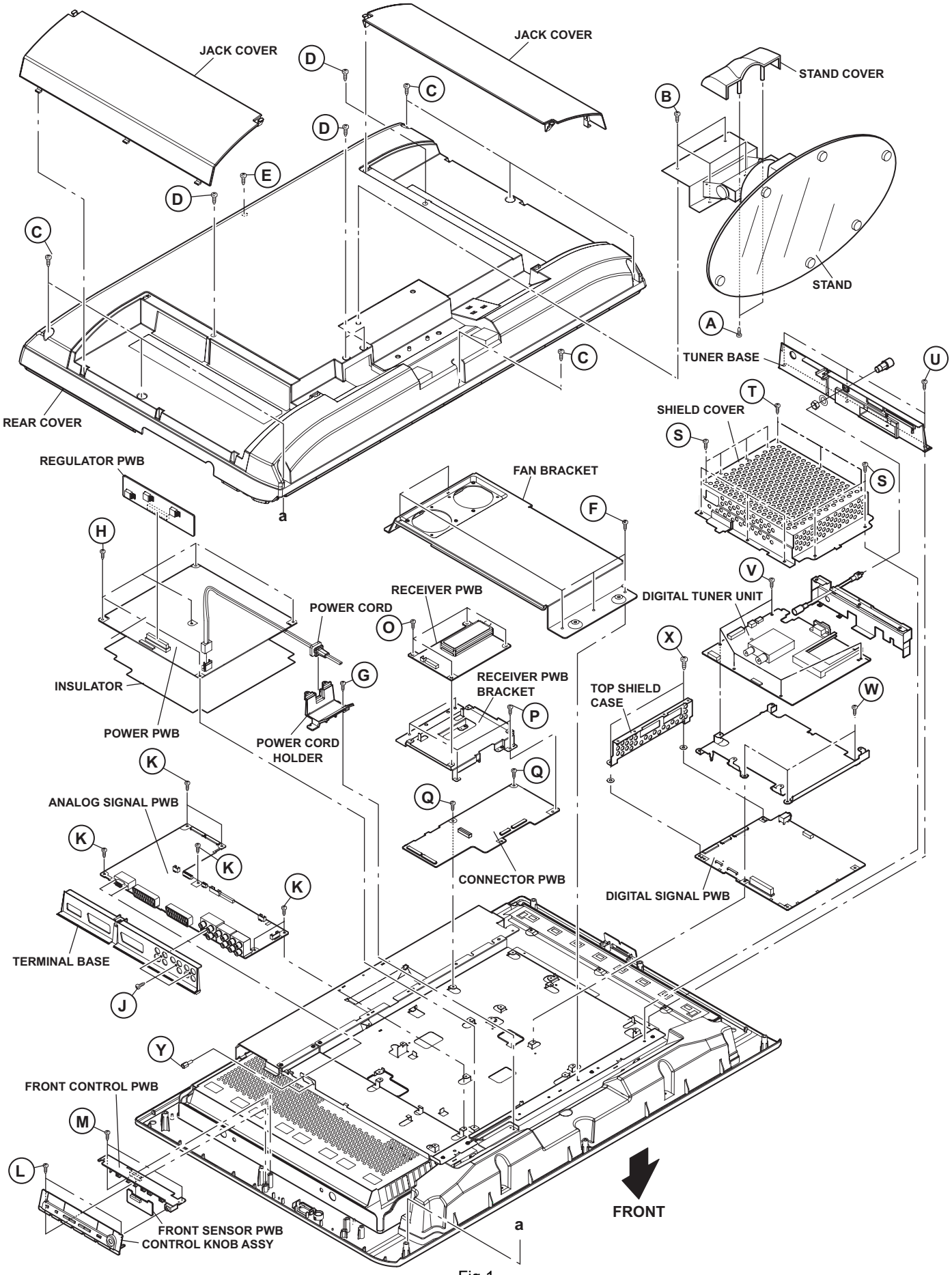

JACK COVER
JACK COVER
STAND COVER
STAND
REAR COVER
TUNER BASE
SHIELD COVER
REGULATOR PWB
FAN BRACKET
RECEIVER PWB
DIGITAL TUNER UNIT
POWER CORD
INSULATOR
POWER PWB
POWER CORD HOLDER
RECEIVER PWB BRACKET
TOP SHIELD CASE
ANALOG SIGNAL PWB
CONNECTOR PWB
DIGITAL SIGNAL PWB
TERMINAL BASE
FRONT CONTROL PWB
FRONT SENSOR PWB
CONTROL KNOB ASSY
FRONT
a
a

Fig.1

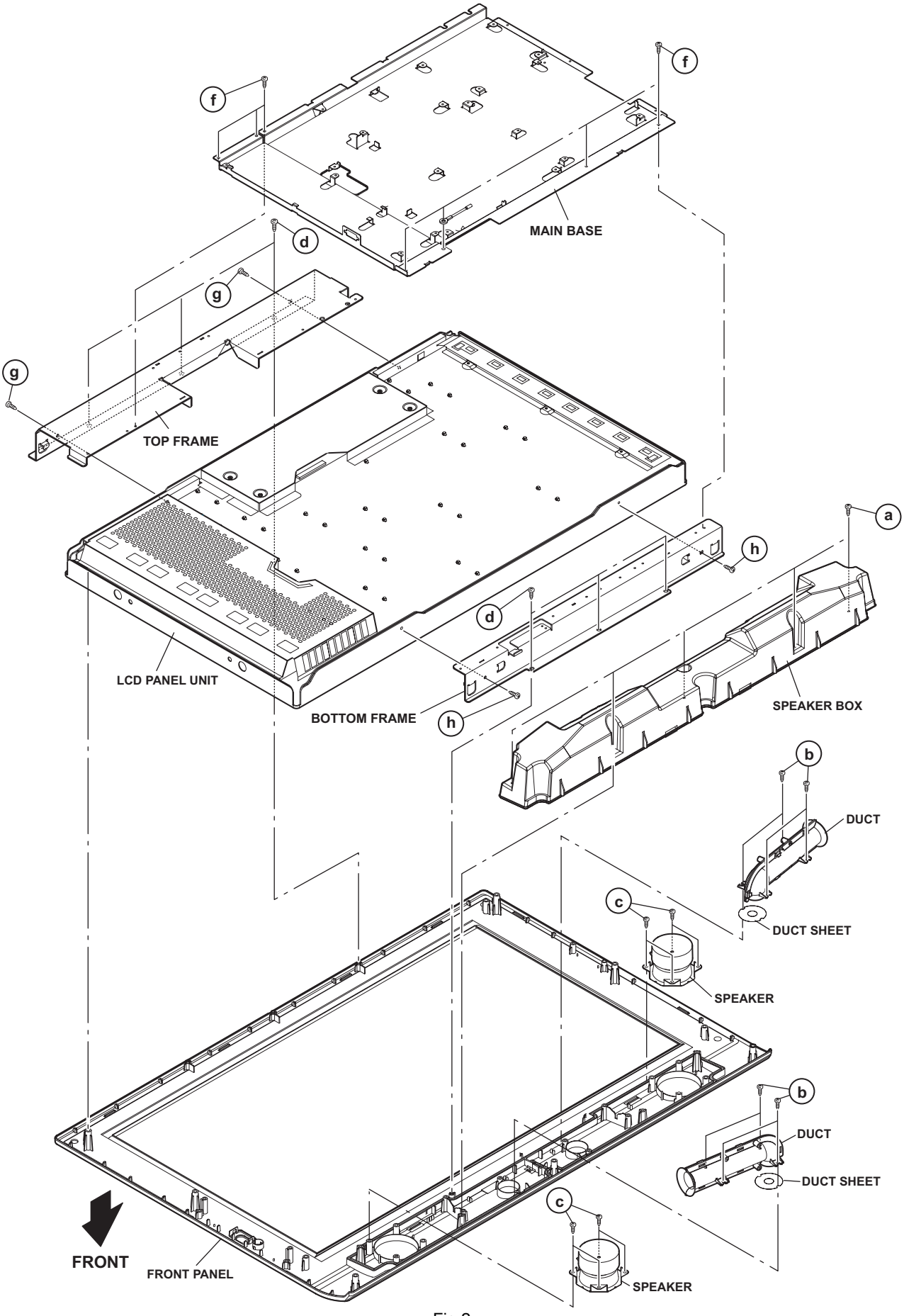

f
f
MAIN BASE
d
g
g
TOP FRAME
LCD PANEL UNIT
BOTTOM FRAME
h
h
d
a
SPEAKER BOX
b
DUCT
DUCT SHEET
c
SPEAKER
b
DUCT
DUCT SHEET
c
SPEAKER
FRONT
FRONT PANEL

Fig.2

3.2 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

3.2.1 MEMORY IC REPLACEMENT PROCEDURE

1. Power off
Switch off the power and disconnect the power plug from the AC outlet.

2. Replace the memory IC
Be sure to use the memory IC written with the initial setting values.

3. Power on
Connect the power plug to the AC outlet and switch on the power.

4. Receiving channel setting
Refer to the OPERATING INSTRUCTIONS and set the receive channels (Channels Preset) as described.

5. User setting
Check the user setting items according to the given in page later. Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.

6. SERVICE MODE setting
Verify what to set in the SERVICE MODE, and set whatever is necessary (Fig.1). Refer to the SERVICE ADJUSTMENT for setting.

3.2.2 SERVICE MODE SETTING

■SERVICE MODE SCREEN

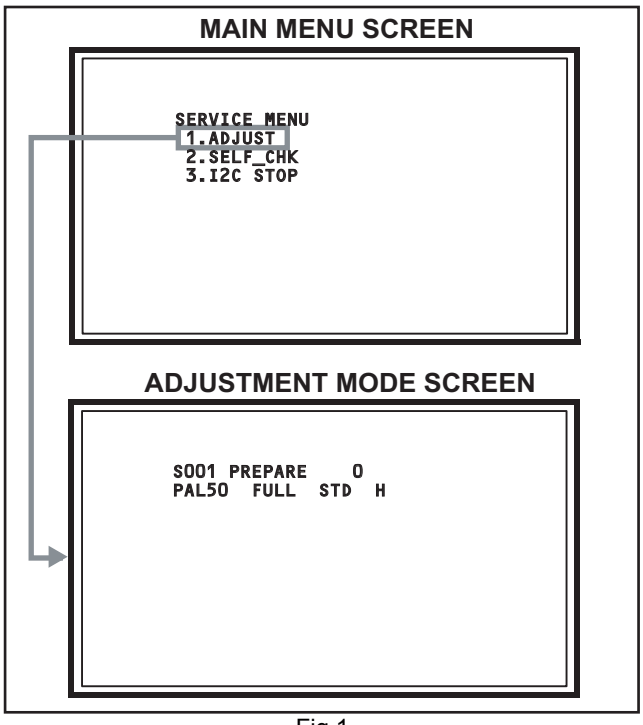


Fig.1

■SETTING ITEM

Setting items	Settings	Item No.
Video system setting	Adjust	S001 - S039
Audio system setting	Fixed	T001 - T010
Panel control system setting	Fixed	P001 - P010
Drive system setting	Fixed	D001 - D187
Main CPU system setting	Fixed	Z001 - Z010

3.2.3 SETTINGS OF FACTORY SHIPMENT

3.2.3.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	PR1
VOLUME	10
TV/AV	TV

3.2.3.2 REMOTE CONTROL DIRECT OPERATION

Setting item	Setting position
CHANNEL	PR1
VOLUME	10
ZOOM	PANORAMIC
3D SOUND	OFF

3.2.3.3 REMOTE CONTROL MENU OPERATION

(1) PICTURE

Setting item		Setting position
PICTURE MODE		BRIGHT
COLOUR TEMP.		COOL
FEATURES		
DIGITAL VNR		AUTO (LOW)
Super DigiPure		AUTO
MOVIE THEATRE		AUTO
COLOUR MANAGEMENT		ON
PICTURE MANAGEMENT		ON
COLOUR SYSTEM	TV	Depends on PR/CH
	EXT	AUTO
4:3 AUTO ASPECT		PANORAMIC

(2) SOUND

Setting item	Setting position
STEREO / I•II	Stereo sound
BASS	Centre
TREBLE	Centre
BALANCE	Centre
3D SOUND	OFF
A.H.B.	ON
BBE	ON

(4) FEATURES

Setting item	Setting position
SLEEP TIMER	OFF
CHILD LOCK	ID NO.0000, All CH off
APPEARANCE	TYPE D
BLUE BACK	ON

(5) SET UP

Setting item	Setting position
AUTO PROGRAM	TV channel automatically set
EDIT/MANUAL	PRESET CH only
LANGUAGE	ENGLISH
DECODER (EXT-2)	OFF
COMPONENT AUTO SELECT	ON
EXT SETTING	
S-IN	BLANK
ID	BLANK
DUBBING	EXT-1 → EXT-2

(6) DTV

Setting item	Setting position
Timers	
Name	****
Start	00:00
End	00:00
Date	01/01/2004
Mode	Inactive
Configuration	
Audio Language	English
Subtitle	English
Favourite Mode	off
Receiver Upgrade	V.*.*
Menu Lock	Disabled

3.3 REPLACEMENT OF CHIP COMPONENT

3.3.1 CAUTIONS

(1) Avoid heating for more than 3 seconds.
(2) Do not rub the electrodes and the resist parts of the pattern.
(3) When removing a chip part, melt the solder adequately.
(4) Do not reuse a chip part after removing it.

3.3.2 SOLDERING IRON

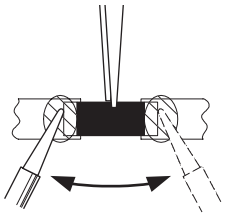
(1) Use a high insulation soldering iron with a thin pointed end of it.
(2) A 30w soldering iron is recommended for easily removing parts.

3.3.3 REPLACEMENT STEPS

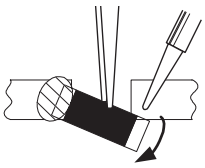
1. How to remove Chip parts

[Resistors, capacitors, etc.]

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



(2) Shift with the tweezers and remove the chip part.

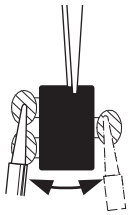


[Transistors, diodes, variable resistors, etc.]

(1) Apply extra solder to each lead.



(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

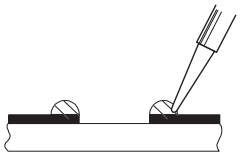


NOTE :
After removing the part, remove remaining solder from the pattern.

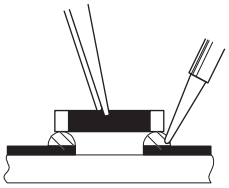
2. How to install Chip parts

[Resistors, capacitors, etc.]

(1) Apply solder to the pattern as indicated in the figure.

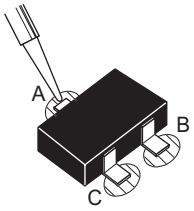


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

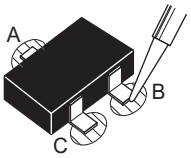


[Transistors, diodes, variable resistors, etc.]

(1) Apply solder to the pattern as indicated in the figure.
(2) Grasp the chip part with tweezers and place it on the solder.
(3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



SECTION 4
ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

(1) **There are 2 ways of adjusting this TV : One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.**
(2) **The adjustment using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.**
(3) Make sure that connection is correctly made AC to AC power source.
(4) Turn on the power of the TV and measuring instruments for warning up for at least 30 minutes before starting adjustments.
(5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
(6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

4.2 PRESET SETTING BEFORE ADJUSTMENTS

Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT.

Setting item	Settings position
PICTURE MODE	STANDARD
PICTURE adjustments	Centre
COLOUR TEMP.	NORMAL
DIGITAL VNR	AUTO (LOW)
Super DigiPure	AUTO
MOVIE THEATRE	AUTO
COLOUR MANAGEMENT	ON
PICTURE MANAGEMENT	ON
SOUND adjustments	Centre
BBE	OFF
3D SOUND	OFF
A.H.B	OFF
ZOOM	FULL

4.3 MEASURING INSTRUMENT AND FIXTURES

- Oscilloscope
- Signal generator (Pattern generator)
  [PAL / 625i / 625p / 1125i(50Hz)]
- Remote control unit

4.4 ADJUSTMENT ITEMS

■ **VIDEO CIRCUIT**

- 625i A-D OFFSET adjustment
- 1125i(50Hz) BRIGHTNESS adjustment
- 1125i(50Hz) A-D OFFSET adjustment
- SUB SCREEN A-D OFFSET adjustment
- WHITE BALANCE (HIGH LIGHT) adjustment

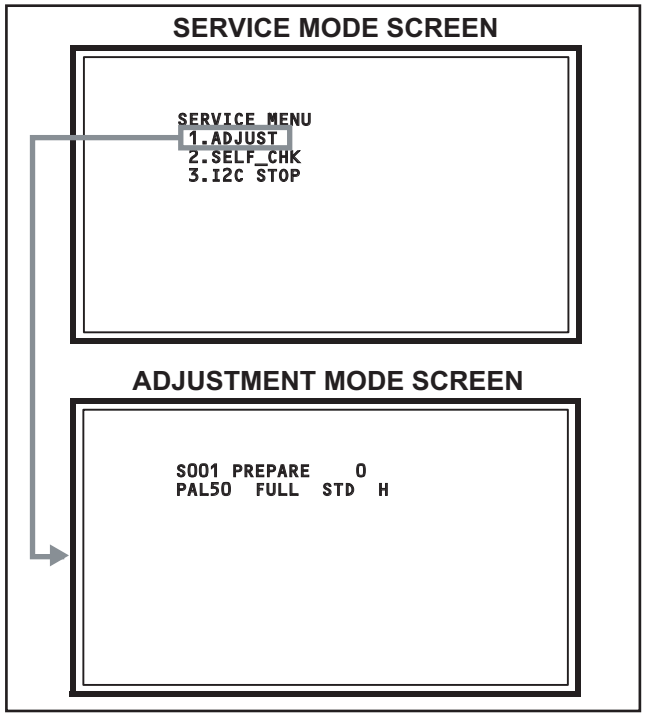
4.5 BASIC OPERATION OF SERVICE MODE

4.5.1 HOW TO ENTER THE SERVICE MODE

(1) Press [INFORMATION] key and [MUTING] key on the remote control unit simultaneously to enter the SERVICE MODE SCREEN.
(2) In the SERVICE MENU, press the [1] key to display ADJUSTMENT MODE SCREEN.

NOTE:

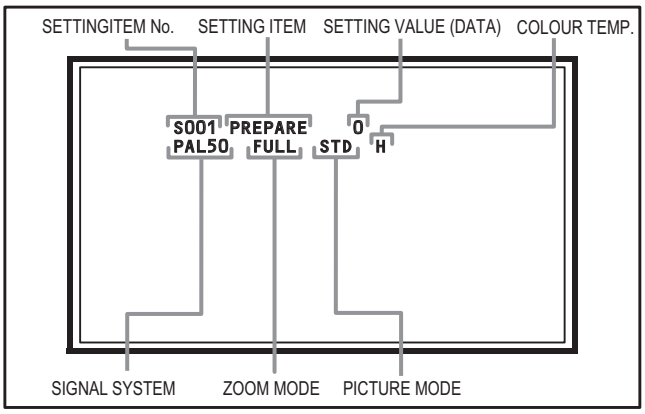
- Before entering the SERVICE MODE, confirm that the setting of VCR/TV/DVD switch is at the "TV" side. If the switches have not been properly set, you cannot enter the SERVICE MODE.
- When a number key other than the [1] to [3] key is pressed in the SERVICE MODE SCREEN, the other relevant screen may be displayed.
  This is not used in the adjustment procedure. Press the [MENU] key to return to the SERVICE MODE SCREEN.



4.5.2 HOW TO EXIT THE SERVICE MODE

Press the [MENU] key to exit the Service mode.

4.5.3 DESCRIPTION OF STATUS DISPLAY



(1) SIGNAL SYSTEM

The signal displayed on the screen is displayed.

PAL50	: PAL50Hz (Composite / S-video)
PAL60	: PAL60Hz (Composite / S-video)
NTSC3	: NTSC3.58
NTSC4	: NTSC4.43
525I	: 525i (Component)
525P	: 525p
625I	: 625i (Component)
625P	: 625p
1125I5	: 1125i 50Hz
1125I6	: 1125i 60Hz
D625I	: DIGITAL 625i
PCVGA	: PC (VGA)
PCXGA	: PC (XGA)

(2) ZOOM MODE

State of the SCREEN SIZE or MULTI PICTURE is displayed.

SINGLE SCREEN

FULL	: FULL
PANO	: PANORAMIC
1609	: 16:9 ZOOM
1609S	: 16:9 ZOOM SUBTITLE
1409	: 14:9 ZOOM
REGU	: REGULAR

MULTI SCREEN

M2	: 2-pictures multi
M12	: 12-pictures multi

(3) PICTURE MODE

STD	: STANDARD
BRI	: BRIGHT
SOFT	: SOFT

(4) COLOUR TEMP.

L	: WARM
H	: NORMAL, COOL

(5) SETTING ITEM NAME

Setting item name are displayed. The setting item numbers to be displayed are listed below.

Item No.	Setting item
S001 to S039	Video system setting
T001 to T010	Audio system setting
P001 to P010	Panel control system setting
D001 to D187	Drive system setting
Z001 to Z010	Main CPU system setting

(6) SETTING ITEM NO.

Setting item numbers are displayed. For the setting item names to be displayed, refer to "INITIAL SETTING VALUES IN THE SERVICE MODE".

(7) SETTING VALUE (DATA)

The SETTING VALUE is displayed.

4.5.4 CHANGE AND MEMORY OF SETTING VALUE

SELECTION OF SETTING ITEM

- [FUNCTION ▲/▼] key.
  For scrolling up / down the setting items.

S001... ↔ T001... ↔ P001... ↔ D001... ↔ Z001...

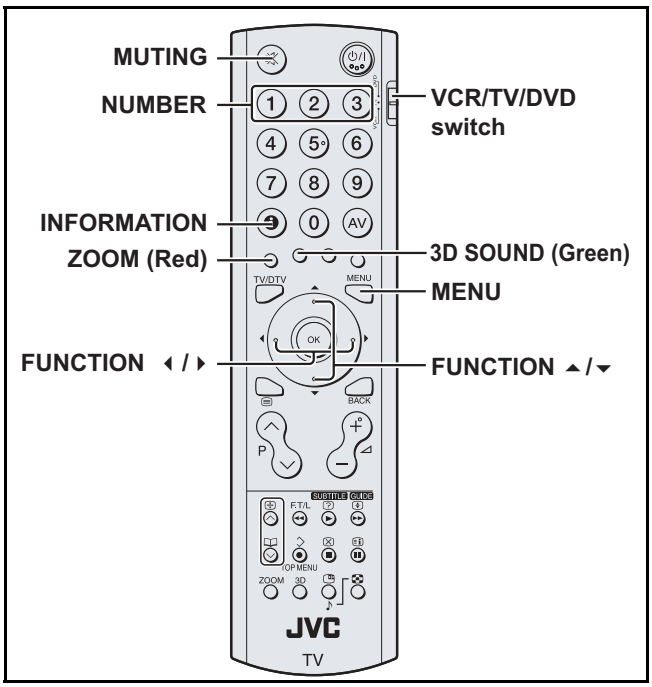
CHANGE OF SETTING VALUE (DATA)

- [FUNCTION ◀ / ▶] key.
  For scrolling up / down the setting values.

MEMORY OF SETTING VALUE (DATA)

Changed setting value is memorized by pressing [MUTING] key.

4.5.5 SERVICE MODE SELECT KEY LOCATION



4.6 INITIAL SETTING VALUES IN THE SERVICE MODE

- Perform fine-tuning based on the "initial values" using the remote control when in the Service mode.
- The "initial values" serve only as an indication rough standard and therefore the values with which optimal display can be achieved may be different from the default values. But, don't change the values that are not written in "ADJUSTMENT PROCEDURE". They are fixed values.

4.6.1 VIDEO SYSTEM SETTING

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
S001	PREPARE	0 - 31	0	0	0
S002	NTSC BL	0 - 15	0	0	0
S003	NTSC CNT	0 - 255	36	36	36
S004	NT CR OF	0 - 15	6	6	6
S005	NT CB OF	0 - 15	6	6	6
S006	525i BL	0 - 15	0	0	0
S007	525i CNT	0 - 255	36	36	36
S008	5i CB OF	0 - 15	0	0	0
S009	5i CR OF	0 - 15	0	0	0
S010	5i CR GN	0 - 15	6	6	6
S011	5i CB GN	0 - 15	6	6	6
S012	HD BL	0 - 63	56	56	56
S013	HD CB OF	0 - 63	57	57	57
S014	HD CR OF	0 - 63	60	60	60
S015	RT CONT	0 - 15	7	7	7
S016	RT CB OF	0 - 15	5	5	5
S017	RT CR OF	0 - 15	8	8	8
S018	RT CL GA	0 - 15	12	12	12
S019	PC CL MB	0 - 7	0	0	0
S020	PC CL LB	0 - 31	0	0	0
S021	PC CL MR	0 - 71	0	0	0
S022	PC CL LR	0 - 31	0	0	0
S023	(Not display)	0 - 255	0	0	0
S024	(Not display)	0 - 255	0	0	0
S025	(Not display)	0 - 255	0	0	0
S026	(Not display)	0 - 255	0	0	0
S027	(Not display)	0 - 255	0	0	0
S028	(Not display)	0 - 255	0	0	0
S029	(Not display)	0 - 255	0	0	0
S030	R DRIVE	0 - 255	133	133	133
S031	G DRIVE	0 - 255	126	126	126
S032	B DRIVE	0 - 255	105	105	105
S033	(Not display)	0 - 255	0	0	0
S034	(Not display)	0 - 255	0	0	0
S035	(Not display)	0 - 255	0	0	0
S036	(Not display)	0 - 255	0	0	0
S037	(Not display)	0 - 255	0	0	0
S038	(Not display)	0 - 255	0	0	0
S039	ILA COM	0 - 1	0	0	0

4.6.2 AUDIO SYSTEM SETTING (*Fixed values)

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
T001	IN LEVEL	0 - 255	0	0	0
T002	LOW SEP	0 - 255	0	0	0
T003	HIGH SEP	0 - 255	0	0	0
T004	AFC	0 - 255	4	4	4
T005	(Not display)	0 - 255	0	0	0
T006	ATT V ON	0 - 1	0	0	0
T007	ATT U ON	0 - 1	0	0	0
T008	ATT C ON	0 - 1	0	0	0
T009	(Not display)	0 - 255	0	0	0
T010	(Not display)	0 - 255	0	0	0

4.6.3 PANEL CONTOROL SYSTEM SETTING (*Fixed values)

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
P001	TM HOR H	00 - FF	00	00	00
P002	TM HOR L	00 - FF	00	00	00
P003	TM MIN	00 - FF	00	00	00
P004	TEMP0	0 - 255	0	0	0
P005	(Not display)	0 - 255	0	0	0
P006	(Not display)	0 - 255	0	0	0
P007	(Not display)	0 - 255	0	0	0
P008	(Not display)	0 - 255	0	0	0
P009	(Not display)	0 - 255	0	0	0
P010	(Not display)	0 - 255	0	0	0

4.6.4 DRIVE SYSTEM SETTING (*Fixed values)

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
D001	SLV GN	00 - 3F	15	15	15
D002	SLVH GN	00 - 3F	13	13	13
D003	SLH GN	00 - 3F	15	15	15
D004	SLV Pf	00 - 03	01	01	01
D005	SLH Pf H	00 - 01	01	01	01
D006	SLH Pf L	00 - 03	01	01	01
D007	SL EGCON	00 - 3F	08	08	08
D008	SL EGONF	00 - 01	01	01	01
D009	SL CRGON	00 - 3F	06	06	06
D010	SL CRGON	00 - 01	01	01	01
D011	SL ON OF	00 - 01	01	01	01
D012	SV GN	00 - 3F	18	18	18
D013	SVH GN	00 - 3F	1A	1A	1A
D014	SH GN	00 - 3F	1C	1C	1C
D015	SV Pf	00 - 03	00	00	00
D016	SV PfH	00 - 01	01	01	01

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
D017	SV PfL	00 - 03	00	00	00
D018	SYL CON	00 - 3F	30	30	30
D019	SYL CONF	00 - 01	01	01	01
D020	SYH CON	00 - 3F	00	00	00
D021	SYH CONF	00 - 01	01	01	01
D022	SC CON	00 - 3F	1A	1A	1A
D023	SC CNONF	00 - 01	01	01	01
D024	SPM BLC	00 - 3F	0A	0A	0A
D025	SPM BLCO	00 - 01	01	01	01
D026	SLIM	00 - 3F	20	20	20
D027	SLIMONF	00 - 01	01	01	01
D028	SCRG	00 - 3F	10	10	10
D029	SRGONF	00 - 01	01	01	01
D030	S ONF	00 - 01	01	01	01
D031	pb GN	00 - 3F	15	15	15
D032	pb PfH	00 - 01	01	01	01
D033	pb PfL	00 - 03	00	00	00
D034	pb CRG	00 - 3F	04	04	04
D035	pb CRGON	00 - 01	01	01	01
D036	pb ONF	00 - 01	01	01	01
D037	pr GN	00 - 3F	15	15	15
D038	pr PfH	00 - 01	01	01	01
D039	pr PfL	00 - 03	00	00	00
D040	pr CRG	00 - 3F	05	05	05
D041	pr CRGON	00 - 01	01	01	01
D042	pr ONF	00 - 01	01	01	01
D043	ENH ONF	00 - 01	01	01	01
D044	(Not display)	00 - FF	00	00	00
D045	(Not display)	00 - FF	00	00	00
D046	(Not display)	00 - FF	00	00	00
D047	(Not display)	00 - FF	00	00	00
D048	(Not display)	00 - FF	00	00	00
D049	(Not display)	00 - FF	00	00	00
D050	(Not display)	00 - FF	00	00	00
D051	(Not display)	00 - FF	00	00	00
D052	(Not display)	00 - FF	00	00	00
D053	(Not display)	00 - FF	00	00	00
D054	(Not display)	00 - FF	00	00	00
D055	(Not display)	00 - FF	00	00	00
D056	(Not display)	00 - FF	00	00	00
D057	(Not display)	00 - FF	00	00	00
D058	(Not display)	00 - FF	00	00	00
D059	(Not display)	00 - FF	00	00	00
D060	(Not display)	00 - FF	00	00	00
D061	(Not display)	00 - FF	00	00	00
D062	(Not display)	00 - FF	00	00	00
D063	(Not display)	00 - FF	00	00	00
D064	(Not display)	00 - FF	00	00	00
D065	(Not display)	00 - FF	00	00	00

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
D066	(Not display)	00 - FF	00	00	00
D067	(Not display)	00 - FF	00	00	00
D068	(Not display)	00 - FF	00	00	00
D069	(Not display)	00 - FF	00	00	00
D070	(Not display)	00 - FF	00	00	00
D071	(Not display)	00 - FF	00	00	00
D072	(Not display)	00 - FF	00	00	00
D073	(Not display)	00 - FF	00	00	00
D074	(Not display)	00 - FF	00	00	00
D075	(Not display)	00 - FF	00	00	00
D076	(Not display)	00 - FF	00	00	00
D077	(Not display)	00 - FF	00	00	00
D078	(Not display)	00 - FF	00	00	00
D079	(Not display)	00 - FF	00	00	00
D080	(Not display)	00 - FF	00	00	00
D081	(Not display)	00 - FF	00	00	00
D082	(Not display)	00 - FF	00	00	00
D083	(Not display)	00 - FF	00	00	00
D084	(Not display)	00 - FF	00	00	00
D085	(Not display)	00 - FF	00	00	00
D086	(Not display)	00 - FF	00	00	00
D087	(Not display)	00 - FF	00	00	00
D088	(Not display)	00 - FF	00	00	00
D089	(Not display)	00 - FF	00	00	00
D090	(Not display)	00 - FF	00	00	00
D091	(Not display)	00 - FF	00	00	00
D092	(Not display)	00 - FF	00	00	00
D093	(Not display)	00 - FF	00	00	00
D094	(Not display)	00 - FF	00	00	00
D095	(Not display)	00 - FF	00	00	00
D096	(Not display)	00 - FF	00	00	00
D097	(Not display)	00 - FF	00	00	00
D098	(Not display)	00 - FF	00	00	00
D099	(Not display)	00 - FF	00	00	00
D100	(Not display)	00 - FF	00	00	00
D101	(Not display)	00 - FF	00	00	00
D102	(Not display)	00 - FF	00	00	00
D103	(Not display)	00 - FF	00	00	00
D104	(Not display)	00 - FF	00	00	00
D105	(Not display)	00 - FF	00	00	00
D106	(Not display)	00 - FF	00	00	00
D107	(Not display)	00 - FF	00	00	00
D108	(Not display)	00 - FF	00	00	00
D109	(Not display)	00 - FF	00	00	00
D110	(Not display)	00 - FF	00	00	00
D111	(Not display)	00 - FF	00	00	00
D112	(Not display)	00 - FF	00	00	00
D113	(Not display)	00 - FF	00	00	00
D114	(Not display)	00 - FF	00	00	00

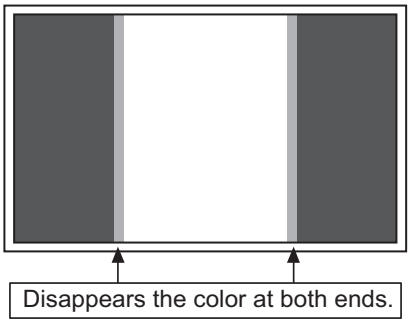
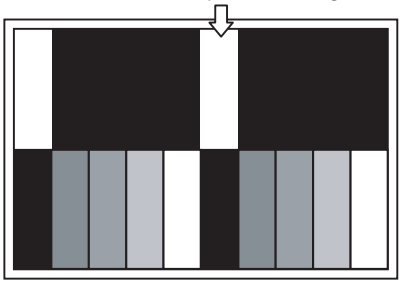
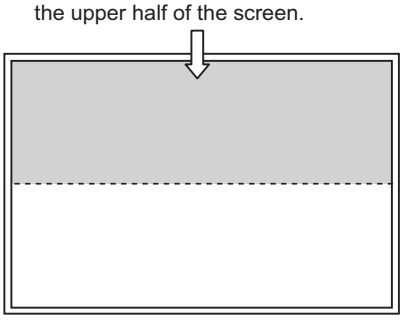
Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
D115	(Not display)	00 - FF	00	00	00
D116	(Not display)	00 - FF	00	00	00
D117	(Not display)	00 - FF	00	00	00
D118	(Not display)	00 - FF	00	00	00
D119	(Not display)	00 - FF	00	00	00
D120	(Not display)	00 - FF	00	00	00
D121	(Not display)	00 - FF	00	00	00
D122	(Not display)	00 - FF	00	00	00
D123	(Not display)	00 - FF	00	00	00
D124	(Not display)	00 - FF	00	00	00
D125	(Not display)	00 - FF	00	00	00
D126	(Not display)	00 - FF	00	00	00
D127	(Not display)	00 - FF	00	00	00
D128	(Not display)	00 - FF	00	00	00
D129	(Not display)	00 - FF	00	00	00
D130	(Not display)	00 - FF	00	00	00
D131	(Not display)	00 - FF	00	00	00
D132	(Not display)	00 - FF	00	00	00
D133	(Not display)	00 - FF	00	00	00
D134	(Not display)	00 - FF	00	00	00
D135	(Not display)	00 - FF	00	00	00
D136	(Not display)	00 - FF	00	00	00
D137	(Not display)	00 - FF	00	00	00
D138	(Not display)	00 - FF	00	00	00
D139	(Not display)	00 - FF	00	00	00
D140	(Not display)	00 - FF	00	00	00
D141	(Not display)	00 - FF	00	00	00
D142	(Not display)	00 - FF	00	00	00
D143	(Not display)	00 - FF	00	00	00
D144	(Not display)	00 - FF	00	00	00
D145	(Not display)	00 - FF	00	00	00
D146	(Not display)	00 - FF	00	00	00
D147	(Not display)	00 - FF	00	00	00
D148	(Not display)	00 - FF	00	00	00
D149	(Not display)	00 - FF	00	00	00
D150	(Not display)	00 - FF	00	00	00
D151	(Not display)	00 - FF	00	00	00
D152	(Not display)	00 - FF	00	00	00
D153	(Not display)	00 - FF	00	00	00
D154	(Not display)	00 - FF	00	00	00
D155	(Not display)	00 - FF	00	00	00
D156	(Not display)	00 - FF	00	00	00
D157	(Not display)	00 - FF	00	00	00
D158	(Not display)	00 - FF	00	00	00
D159	(Not display)	00 - FF	00	00	00
D160	(Not display)	00 - FF	00	00	00
D161	(Not display)	00 - FF	00	00	00
D162	(Not display)	00 - FF	00	00	00
D163	(Not display)	00 - FF	00	00	00
D164	(Not display)	00 - FF	00	00	00
D165	(Not display)	00 - FF	00	00	00
D166	(Not display)	00 - FF	00	00	00
D167	(Not display)	00 - FF	00	00	00
D168	(Not display)	00 - FF	00	00	00
D169	(Not display)	00 - FF	00	00	00
D170	(Not display)	00 - FF	00	00	00
D171	(Not display)	00 - FF	00	00	00
D172	(Not display)	00 - FF	00	00	00
D173	(Not display)	00 - FF	00	00	00
D174	(Not display)	00 - FF	00	00	00
D175	(Not display)	00 - FF	00	00	00
D176	(Not display)	00 - FF	00	00	00
D177	(Not display)	00 - FF	00	00	00
D178	(Not display)	00 - FF	00	00	00
D179	(Not display)	00 - FF	00	00	00
D180	(Not display)	00 - FF	00	00	00
D181	(Not display)	00 - FF	00	00	00
D182	(Not display)	00 - FF	00	00	00
D183	(Not display)	00 - FF	00	00	00
D184	(Not display)	00 - FF	00	00	00
D185	(Not display)	00 - FF	00	00	00
D186	(Not display)	00 - FF	00	00	00
D187	(Not display)	00 - FF	00	00	00

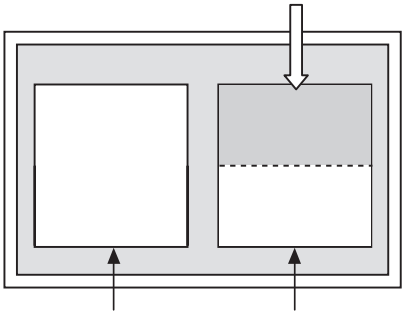
4.6.5 MAIN CPU SYETEM SETTING (*Fixed values)

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
Z001	(Not display)	00 - FF	00	00	00
Z002	(Not display)	00 - FF	00	00	00
Z003	(Not display)	00 - FF	00	00	00
Z004	(Not display)	00 - FF	00	00	00
Z005	(Not display)	00 - FF	00	00	00
Z006	(Not display)	00 - FF	00	00	00
Z007	(Not display)	00 - FF	00	00	00
Z008	(Not display)	00 - FF	00	00	00
Z009	(Not display)	00 - FF	00	00	00
Z010	(Not display)	00 - FF	00	00	00

4.7 ADJUSTMENT PROCEDURE

4.7.1 VIDEO CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
625i A-D OFFSET	Remote control unit Signal generator		[1.ADJUST] S001: PREPARE (Adjustment setting mode change) S008: 5i CB OF(625i cb offset) S009: 5i CR OF(625i cr offset) S030: R DRIVE(Red drive) S031: G DRIVE(Green drive) S032: B DRIVE(Blue drive)	(1) Receive a 625i component ramp pattern signal. (2) Set "PICTURE MODE" to STANDARD. (3) Set "ZOOM" to FULL. (4) Set "COLOUR TEMP." to NORMAL. (5) Select "1.ADJUST" from the SERVICE MODE. (6) Set < S030 > (R DRIVE), < S031> (G DRIVE) and < S032 > (B DRIVE) to "133". (7) Set < S001 >(adjustment setting mode change) to set "8" and it change to the 625i A-D offset adjustment setting mode. (8) Adjust < S008 > (625i Cb offset) and < S009 > (625i Cr offset) to lose the gap (red line, green line and blue line) which appears at both ends of a white part at the centre of the screen. (9) Set < S001 > to set "0" and it change to the normal mode. (10) Press the [MUTING] key to memoirze the set value.
				
1125i (50Hz) BRIGHTNESS	Remote control unit Signal generator		[1.ADJUST] S001: PREPARE (Adjustment setting mode change) S012: HD BL(1125i brightness) S030: R DRIVE(Red drive) S031: G DRIVE(Green drive) S032: B DRIVE(Blue drive)	(1) Receive a 1125i (50Hz) gray scale pattern signal. (2) Set "PICTURE MODE" to STANDARD. (3) Set "ZOOM" to FULL. (4) Set "COLOUR TEMP." to NORMAL. (5) Select "1.ADJUST" from the SERVICE MODE. (6) Set < S030 > (R DRIVE), < S031> (G DRIVE) and < S032 > (B DRIVE) to "133". (7) Set < S001 > (adjustment setting mode change) to set the values "12" and it change to the 1125i black level adjustment setting mode. (8) Adjust < S012 > (1125i brightness) to set the 0% black part in the upper half of the screen to be brightest. (9) Set < S001 > to set "0" and it change to the normal mode. (10) Press the [MUTING] key to memoirze the set value.
Set the 0% black part to be brightest. 				
1125i (50Hz) A-D OFFSET	Remote control unit Signal generator		[1.ADJUST] S001: PREPARE (Adjustment setting mode change) S013: HD CB OF(1125i cb offset) S014: HD CR OF(1125i cr offset) S030: R DRIVE(Red drive) S031: G DRIVE(Green drive) S032: B DRIVE(Blue drive)	(1) Receive a 1125i (50Hz) 30% all white pattern signal. (2) Set "PICTURE MODE" to STANDARD. (3) Set "ZOOM" to FULL. (4) Set "COLOUR TEMP." to NORMAL. (5) Select "1.ADJUST" from the SERVICE MODE. (6) Set < S030 > (R DRIVE), < S031> (G DRIVE) and < S032 > (B DRIVE) to "133". (7) Set < S001 > (adjustment setting mode change) to set "13" and it change to the 1125i A-D offset adjustment setting mode. (8) Adjust < S013 > (1125i Cb offset) to minimize the blue noise in the upper half of the screen. (9) Set < S014 > (1125i Cr offset) to minimize the blue noise in the upper half of the screen. (10) Set < S001 > to set "0" and it change to the normal mode. (11) Press the [MUTING] key to memoirze the set value.
Minimize the red and blue noises in the upper half of the screen. 				

Item	Measuring instrument	Test point	Adjustment part	Description
SUB SCREEN A-D OFFSET	Remote control unit Signal generator		[1.ADJUST] S001: PREPARE (Adjustment setting mode change) S016: RT CB OF (Sub screen cb offset) S017: RT CR OF (Sub screen cr offset) S030: R DRIVE(Red drive) S031: G DRIVE(Green drive) S032: B DRIVE(Blue drive)	(1) Set "PICTURE MODE" to STANDARD. (2) Set "ZOOM" to FULL. (3) Set "COLOUR TEMP." to NORMAL. (4) Set "MULTI SCREEN" to 2 pictures. (5) Receive a PAL 30% all white pattern signal on the Right screen. At the same time, set the Left screen in VIDEO-1 mode (No signal). (6) Select "1.ADJUST" from the SERVICE MODE. (7) Set < S030 > (R DRIVE), < S031> (G DRIVE) and < S032 > (B DRIVE) to "133". (8) Set < S001 > (adjustment setting mode change) to set "17" and it change to the sub screen A-D offset adjustment setting mode. (9) Adjust < S016 > (Sub screen cb offset) to minimize the blue noise in the upper half of the screen. **If you select an adjustment item < S016 >, then the screen automatically turn to twin pictures mode.** (10) Adjust < S017 > (Sub screen cr offset) to minimize the red noise in the upper half of the screen. (11) Readjust < S016 > and < S017 > to set the upper half of the screen to be the blackest. (See Fig.9) (12) Set < S001 > to set "0" and it change to the normal mode. (13) Press the [MUTING] key to memoirze the set value.
Set the 0% block part to be brightest.  				
WHITE BALANCE (HIGHLIGHT)	Remote control unit Signal generator		[1.ADJUST] S030: R DRIVE (Red drive) S031: G DRIVE (Green drive) S032: B DRIVE (Blue drive)	(1) Receive a PAL 75% all white signal. (2) Set "PICTURE MODE" to STANDARD. (3) Set "ZOOM" to FULL. (4) Set "COLOUR TEMP." to NORMAL. (5) Select "1.ADJUST" from the SERVICE MODE. (6) Adjust to Keep one of < S030 > (Red drive), < S031 > (Green drive) or < S032 > (Blue drive) unchanged, then lower the other two so that the all-white screen is equally white throughout. **NOTE:** Set one or more of < S030 >, < S031 >, and < S032 > to "85". (7) Check that white balance is properly tracked from low light to high light. If the white balance tracking is deviated, adjust to correct it. (8) Press the [MUTING] key to memoirze the set value.

SECTION 5
TROUBLESHOOTING

5.1 SELF CHECK FEATURE

5.1.1 OUTLINE

This unit comes with the "Self check" feature, which checks the operational state of the circuit and displays/saves it during failure.Diagnosis is performed when power is turned on, and information input to the main microcomputer is monitored at all time.Diagnosis is displayed in 2 ways via screen display and LED flashes. Failure detection is based on input state of I^2C bus and the various control lines connected to the main microcomputer.

5.1.2 HOW TO ENTER THE SELF CHECK MODE

Before entering the SERVICE MODE, confirm that the setting of VCR/TV/ DVD switch is at the "TV" side. If the switches have not been properly set, you cannot enter the SERVICE MODE.

(1) Press the [INFORMATION] key and [MUTING] key simultaneously, then enter the SERVICE MODE.
(2) Press the [2] key SELF CHECK MODE.
(3) Press the [RED (ZOOM)] key to enter Page 2 of the SELF CHECK MODE.
*Use the [GREEN (3D SOUND)] key to toggle between Page 1 and Page 2.

NOTE:

When a number key other than the [1] to [3] key is pressed in the SERVICE MODE screen, the other relevant screen may be displayed.
This is not used in the adjustment procedure. Press the [MENU] key to return to the MAIN MENU SCREEN.

5.1.3 HOW TO EXIT THE SELF CHECK MODE

To Save Failure History:

Turn off the power by unplugging the AC power cord plug when in the Self check display mode.

To Clear (Reset) Failure History:

Turn off the power by pressing the [POWER] key on the remote control unit when in the Self check display mode.

5.1.4 FAILURE HISTORY

Failure history can be counted up to 9 times for each item. When the number exceeds 9, display will remain as 9. Failure history will be stored in the memory unless it has been deleted.

NOTE:

Only SYNC (with/without sync signals) will be neither counted nor stored.

5.1.5 POINTS TO NOTE WHEN USING THE SELF CHECK FEATURE

In addition to circuit failures (abnormal operation), the following cases may also be iagnosed as "Abnormal" and displayed and counted as "NG".

(1) Temporary defective transmissions across circuits due to pulse interruptions
(2) Misalignment in the on/off timing of power for I^2C bus (VCC) when turning on/off the main power.

Diagnosis may be impeded if a large number of items are displayed as "NG". As such, start Self check check only after 3 seconds in the case of receivers and 5 seconds in the case of panels upon turning on the power. If recurrences are expected, ensure to clear (reset) the failure history and record the new diagnosis reults.

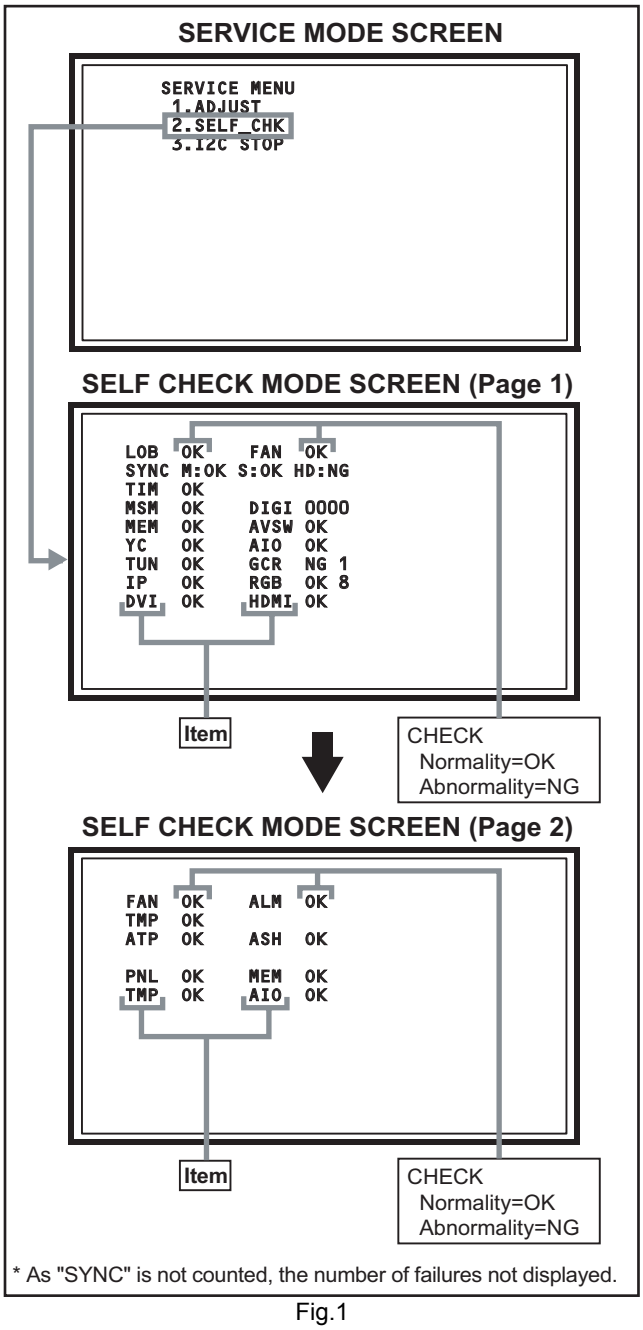


Fig.1

5.1.6 DETAILS

Self check is performed for the following items:

< Page 1 of screen >

Detection item	Display	Detection content	Diagnosis signal (line)	Detection timing
Low bias line short protection	LOB	Confirmation of operation of the low bais (2.5V / 3.3V / 5V / 9V) protection circuit. **Q9822 [REGULATOR PWB]**	LB_PRO	Detection starts 3 seconds after the power is turned on. If error continues between 400ms the power is turned off.
Abnormal rise of temperature in audio circuit	FAN	Confirmation of the temperature of audio circuit. **TH6661 [ANALOG SIGNAL PWB]**	SDA	Detection starts 3 seconds after the power is turned on. If the temperture of 90°C is detected for 3 seconds the power is turned off.
Presence of sync signal	SYNC	Confirmation of presence of video sync signal. M : Main sync signal S : Sub sync signal HD : Component sync signal **IC201 [ANALOG SIGNAL PWB]**	SDA	Confirmation of presence of sync signal in video signal.
AC power input	TIM	Not used.	---	---
Main CPU communication	MSM	Not used.	---	---
Digital tuner	DIGI	Confirmation of reply of ACK signal which uses I^2C communication. **[DIGITAL TUNER UNIT]**	SDA	If it checks whenever I^2C communication is performed and no reply of ACK signal an error will be counted.
Main memory	MEM	Confirmation of reply of ACK signal which uses I^2C communication. **IC7602 [DIGITAL SIGNAL PWB]**	SDA	Same as above.
AV select switch	AVSW	Same as above. **IC301, IC501 [ANALOG SIGNAL PWB]**	SDA	Same as above.
3 dimensions YC separator	YC	Not used.	---	---
Multi sound process	AIO	Not used.	---	---
RF tuner	TUN	Confirmation of reply of ACK signal which uses I^2C communication. **TU3001 [RECEIVER PWB]**	SDA	If it checks whenever I^2C communication is performed and no reply of ACK signal an error will be counted.
Ghost reduction	GCR	Not used.	---	---
DIST process	IP	Confirmation of reply of ACK signal which uses I^2C communication. **IC3001 [DIGITAL SIGNAL PWB]**	SDA	If it checks whenever I^2C communication is performed and no reply of ACK signal an error will be counted.
RGB process	RGB	Confirmation of reply of ACK signal which uses I^2C communication. **IC3001 [DIGITAL SIGNAL PWB]**	SDA	If it checks whenever I^2C communication is performed and no reply of ACK signal an error will be counted.
DVI (Digital communication)	DVI	Not used.	---	---
Digital input	HDMI	Not used.	---	---

< Page 2 of screen >

Detection item	Display	Detection content	Diagnosis signal (line)	Detection timing
Fan lock	FAN	Not used.	---	---
Abnormal of operation of PANEL	ALM	Not used.	---	---
Abnormal rise of temperature in PANEL	TMP	Not used.	---	---
Abnormal rise of temperature in audio circuit	ATP	Not used.	---	---
Short circuit detection of audio circuit	ASH	Not used.	---	---
Panel communication	PNL	Not used.	---	---
Sub memory	MEM	Not used.	---	---
Temp. sensor	TMP	Not used.	---	---
Audio control	AIO	Confirmation of reply of ACK signal which uses I^2C communication. **IC6521 [ANALOG SIGNAL PWB]**	SDA	If it checks whenever I^2C communication is performed and no reply of ACK signal an error will be counted.

5.1.7 METHOD OF DISPLAY WHEN A RASTER IS NOT OUTPUT

In the state where a raster is not output by breakdown of the set, an error is displayed by blink of the POWER LED.

Type of error	POWER LED flash cycle
Low bias line short protection	Green turnig on and off at 1 second intervals.
Abnormal rise of temperature in audio circuit	Green turnig on and off at 0.1 second intervals.

< Explanation of operation >

If error is detected, the power is turned off.
Shortly after a power is turned off, POWER LED will be blinked.
Power cannot be turned on until the power cord takes out and inserts, after a power is turned off.

JVC
Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY VIDEO DISPLAY CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.YA206)

Printed in Japan
VPT

JVC

SERVICE MANUAL

LCD INTEGRATED DIGITAL TV

LT-32D50BJ,
LT-32D50SJ

BASIC CHASSIS
FL

Supplementary

Please be informed that this service manual contains the related matters following the parts replacement in the LCD PANEL UNIT.
For details other than those described in this manual, please refer to the LT-32D50BJ and LT-32D50SJ service manual (No.YA206, 2005/1).

SECTION 1
PRECAUTION

Please refer to "LT-32D50BJ and LT-32D50SJ (No.YA206)" about this section.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

Please refer to "LT-32D50BJ and LT-32D50SJ (No.YA206)" about this section.

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No.YA206B
2005/4

SECTION 3
DISASSEMBLY

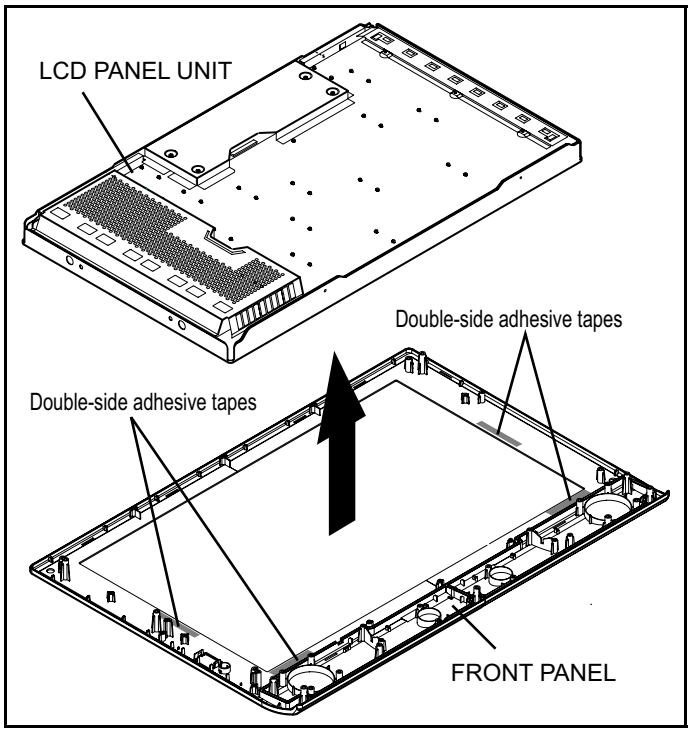
CAUTION AT DISASSEMBLY:

- Make sure that the power cord is disconnected from the outlet.
- Pay special attention not to break or damage the parts.
- When removing each board, remove the connectors as required. Taking notes of the connecting points (connector numbers) makes service procedure manageable.
- During the procedure, place a mirror mat etc. under the LCD UNIT and be careful not to damage the PANEL.
- Make sure that there is no bent or stain on the connectors before inserting, and firmly insert the connectors.

3.1 DISASSEMBLY PROCEDURE

3.1.1 CAUTION ON REMOVING THE LCD PANEL UNIT

The LCD PANEL is fixed to the FRONT PANEL (at the back side) by using double-side adhesive tapes. To remove the LCD PANEL UNIT, remove the adhesive tape on the FRONT PANEL slowly.



3.1.2 REMOVING THE CONTROL PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the LCD PANEL UNIT.

(1) Remove the 4 screws **[A]**, then remove the CONTROL PWB COVER.
(2) Remove the 2 screws **[B]**, then remove the CONTROL PWB.

CAUTION:

Carry out the procedure with extra care as the FERRITE CORE is affixed with double-side adhesive tapes and it may break if extra force is applied.

3.1.3 REMOVING THE INVERTER PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the LCD PANEL UNIT.

(1) Remove the 6 screws **[C]**, then remove the INVERTER PWB COVER.
(2) Remove the 3 screws **[D]**, then remove the INVERTER PWB.
(3) Remove the 8 screws **[E]**, then remove the INVERTER PWB COVER.
(4) Remove the 3 screws **[F]**, then remove the INVERTER COLD PWB.

3.1.4 REMOVING THE BACK LIGHT UINT (Fig.1)

CAUTION:

When replacing the BACK LIGHT UINT, be careful to prevent dust attachment to the UNIT. If dust particles attached to the UNIT, it becomes the cause of uneven brightness.

- Remove the STAND.
- Remove the REAR COVER.
- Remove the LCD PANEL UNIT.
- Remove the CONTROL PWB.
- Remove the INVERTER PWB.
- Remove the INVERTER COLD PWB.

(1) Remove the 14 screws **[G]**, then remove the TOP PANEL FRAME.
(2) Remove the 4 screws **[H]**, then remove the LCD PANEL.

CAUTION:

When removing the LCD PANEL, be careful not to give stress to the FPC which connects the PWB and the LCD PANEL.

CAUTION ON EXCHAGING THE BACK LIGHT UINT

- If the screws that are not specified in this section are removed, the LCD PANEL will be removed and it cannot be reassembled.

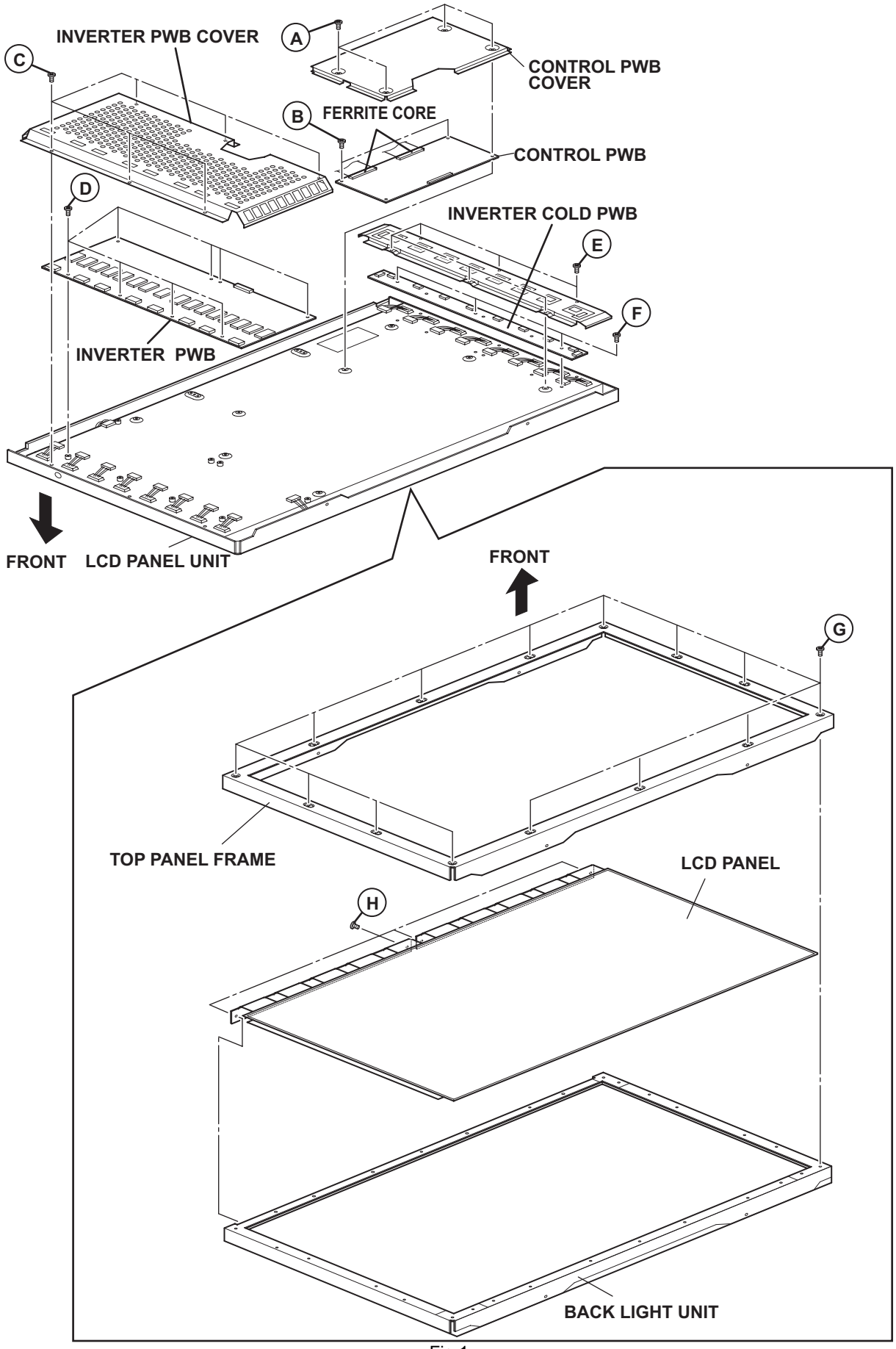

INVERTER PWB COVER
A
CONTROL PWB COVER
C
B
FERRITE CORE
CONTROL PWB
D
INVERTER COLD PWB
E
F
INVERTER PWB
FRONT
LCD PANEL UNIT
FRONT
G
TOP PANEL FRAME
LCD PANEL
H
BACK LIGHT UNIT

Fig.1

SECTION 4
ADJUSTMENT

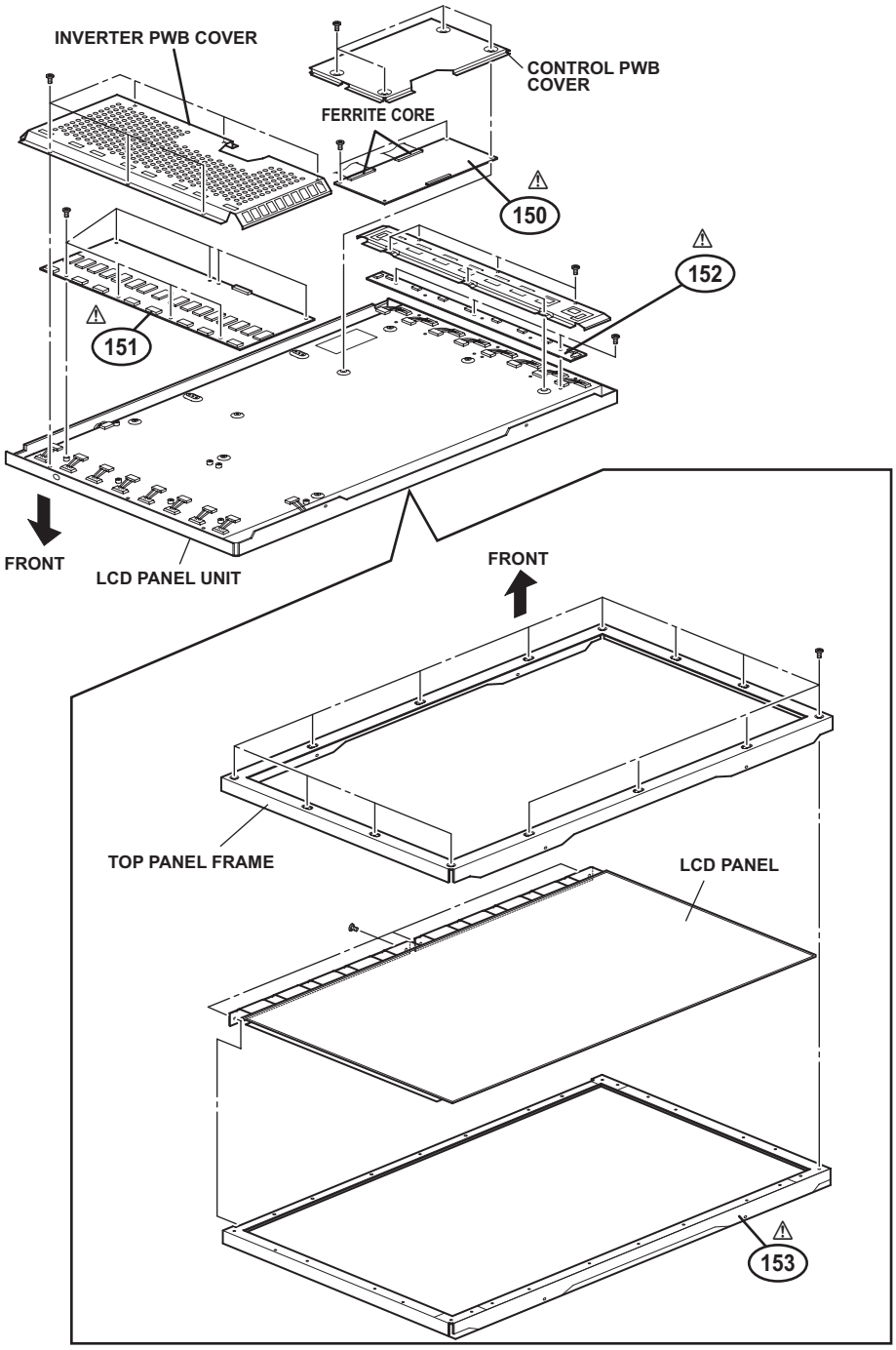
Please refer to "LT-32D50BJ and LT-32D50SJ (No.YA206)" about this section.

SECTION 5
TROUBLESHOOTING

Please refer to "LT-32D50BJ and LT-32D50SJ (No.YA206)" about this section.

PARTS LIST

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	150	LJ94-00414B	CONTOROL PWB		
⚠	151	LJ97-00329A	INVERTER PWB		
⚠	152	LJ97-00378A	INVERTER COLD PWB		
⚠	153	LJ96-01030A	BACK LIGHT UNIT		

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DynaPiX Powered by D.I.S.T.

InteriArt

LT-32D50BJ
LT-26D50BJ
LT-32D50SJ
LT-26D50SJ

T-V LINK

DynaPix LCD IDTV with D.I.S.T. INSTRUCTIONS

DVB Digital Video Broadcasting

Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996) Number: 3249

■ Warning

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adaptor or consult your dealer.

If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If a new mains plug has to be fitted, then follow the instruction given below:

Important

Do not make any connection to the larger terminal which is marked with the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:
Blue: Neutral
Brown: Live

As these colours may not correspond with the coloured marking identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

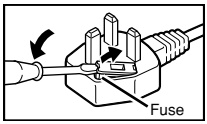
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

When replacing the fuse, use only a correctly rated approved type and always re-fit the fuse cover.

■ If in doubt — consult a competent electrician.

How to replace the fuse

Open the fuse compartment with a blade screwdriver, and replace the fuse.



■ Guidelines for safe operation

This equipment has been designed and manufactured to comply with international safety standards. However, as with any electrical appliance, care must be taken to ensure optimal results and operational safety.

- Before attempting to use this equipment, read the operating instructions thoroughly.
- Ensure that all electrical connections (including the mains plug, extension leads, etc.) have been made in accordance with the manufacturer's instructions.
- If ever in doubt about the installation, operation or safety of this equipment, consult your dealer.
- Handle all glass panels or covers with care.
- Never operate this equipment if it appears damaged or operates abnormally. Turn the power off, disconnect the main power plug and consult your dealer.
- Never remove any affixed panels or covers. Doing so may result in electrical shock.
- Never leave this equipment operating unattended unless otherwise specifically stated that it is designed to do so or in standby mode. Only use the designated power switch to turn off the power and ensure that all potential users are instructed how to do so. Make special arrangements for infirm or handicapped persons.
- Never watch TV while operating a motor vehicle. It is illegal to watch TV while driving.
- Never listen to headphones at high volume. Doing so may damage your hearing.
- Never obstruct the ventilation of this equipment. Doing so may cause overheating and result in a malfunction or damage.
- Never use makeshift stands or attempt to affix legs with wood screws. When using a manufacturer's approved stand or legs, use only the fixtures provided and follow the installation instructions.
- Never allow this equipment to be exposed to rain or moisture.
- Never allow anyone, especially children, to insert anything into an opening in the case. Doing so may result in a fatal electrical shock.
- Never guess or take chances with electrical equipment of any kind. It is better to be safe than sorry.

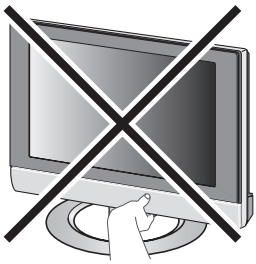
Thank you for buying this JVC LCD flat television.
To make sure you understand how to use your new TV, please read this manual thoroughly before you begin. ("LCD" stands for Liquid Crystal Display.)

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

WARNING: WHEN PUTTING THE TV DOWN, DO SO SLOWLY AND CAREFULLY ONTO A FLAT SURFACE.

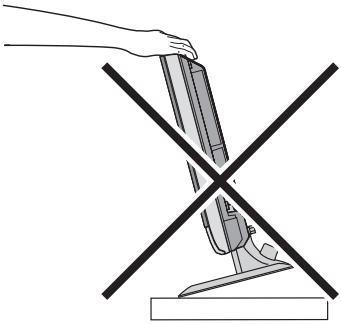
WARNING

- Fingers may be trapped under the TV causing injuries. Hold the TV at the bottom in the middle, and do not allow it to tilt up or down.



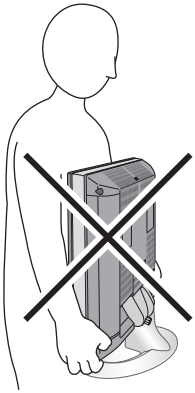
WARNING

- The TV may fall causing injuries. Hold the bottom of the stand with your hand and tilt the TV up and down.
- Do not allow children to hang from the TV, place their elbows on the TV or lean against the TV. Doing so may cause the TV to fall over and lead to injuries.



CAUTION

- The TV screen may be damaged if the TV is carried as shown in the diagram below.
  The TV should always be carried by two people.



Thank you for buying this JVC colour television.
To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

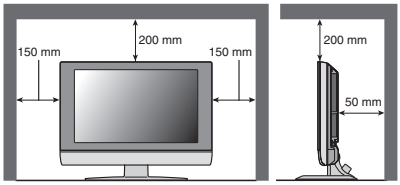
- Operate only from the power source specified (AC 110 – 240 V, 50/60 Hz) on the unit.
- Avoid damaging the AC plug and power cord.
- When you are not using this unit for a long period of time, it is recommended that you disconnect the power cord from the main outlet.

Pixel defects

LCDs use collections of fine points ("pixels") to display images. While there is no problem with more than 99.99% of these pixels, please understand that a very small number of pixels may not light, or may light all the time.

Distance recommendations

Avoid improper installation and never position the unit where good ventilation is impossible.
When installing this TV, distance recommendations must be maintained between the set and the wall, as well as inside a tightly enclosed area or piece of furniture. Keep to the minimum distance guidelines shown for safe operation.



Failure to heed the following precautions may result in damage to the TV or remote control.

DO NOT block the TV's ventilation openings or holes.
(If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)

DO NOT place anything on top of the TV.
(such as cosmetics or medicines, flower vases, potted plants, cups, etc.)

DO NOT allow objects or liquid into the cabinet openings.
(If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)

DO NOT place any naked flame sources, such as lighted candles, on the TV.

The surface of the TV screen is easily damaged. Be very careful with it when handling the TV. Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it forcefully. Never use any cleaner or detergent on it.

In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

D.I.S.T. demonstration

To start the D.I.S.T. demonstration:
Press the **MENU** button to display the menu bar. Then press the yellow button.
A picture split in two (D.I.S.T. turned on and D.I.S.T. turned off) will appear on the screen.

To quit the D.I.S.T. demonstration:
Press the yellow button, **TV/DTV** button, **P** ∨/∧ buttons or any of the number buttons.

NOTE:

Due to static electricity, the TV may be covered with dust.
If this happens, wipe the TV with a soft cloth being careful not to scratch the TV.

Digital terrestrial broadcasting (DVB-T) service area

Although this TV can receive both Digital terrestrial broadcasting (DVB-T) and Analogue terrestrial broadcasting, depending on the area in which you live, you may not be able to receive Digital terrestrial broadcasting (DVB-T).
For details of the Digital terrestrial broadcasting (DVB-T) service area, refer to the FREEVIEW website etc.

■ Cleaning the screen

The screen is coated with a special thin film to reduce reflection. If this film is damaged, uneven colours, discolouration, scratches, and other problems that cannot be repaired may occur. Pay attention to the following when handling the screen.

- Do not use glue or adhesive tape on the screen.
- Do not write on the screen.
- Do not allow the screen to come in contact with any hard objects.
- Do not allow condensation to form on the screen.
- Do not use alcohol, thinner, benzene or other solvents on the screen.
- Do not rub the screen hard.

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Setting up your TV

- When you install the TV on the wall, only use a JVC wall mounting unit (optional) which is designed for this TV.
- Make sure that the TV is installed on the wall by a skilled installer.

Installation

Cautions for installation

- Install the TV in a corner on a wall or on the floor so as to keep cords out of the way.
- The TV will generate a slight amount of heat during operation. Ensure that sufficient space is available around the TV to allow satisfactory cooling. See “Distance recommendations” on page 4.

Using the stand

This TV comes with a table top stand already attached.
This stand can be used to adjust the direction of the TV screen 5° up, 10° down, and 20° to the left or right.

■ Tilt the TV up and down:

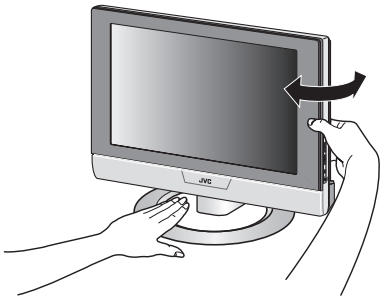
While holding the bottom of the stand with one hand, use your other hand to hold the middle of the top of the TV and slowly tilt the TV up and down.

- As a safety measure, the stand needs constructed so that it requires a certain amount of force to tilt the TV.



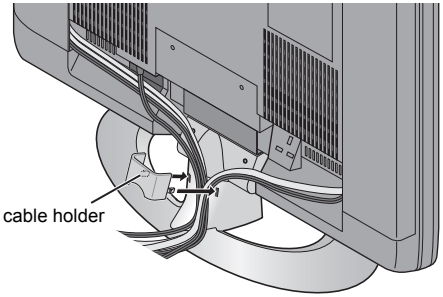
■ Rotate the TV to the left and right:

While holding the bottom of the stand with one hand, use your other hand to hold the edge of the panel and slowly adjust the direction of the TV screen.



■ Cable holder

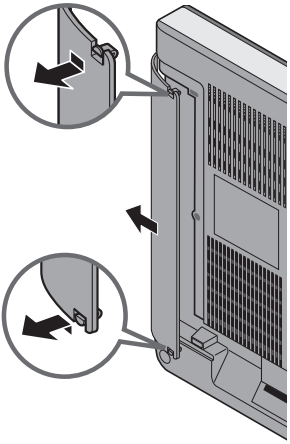
A cable holder which is used to keep the connection cables tidy is attached to the back of the stand. Gently squeeze the left and right of the cable holder and pull it to remove it from the stand. After putting the cables in the cable holder, attach it to the back of the stand again.



Removing the terminal covers

There are connection terminals behind the covers on the left and right of the rear of the TV. Remove these two covers before connecting an antenna or VCR.

Remove the covers by removing the hooks. When replacing the covers, place the side of the covers against the TV and insert the hooks.



- Leave the covers off if they do not fit properly. Do not force to replace the covers. Doing so may cause damage to the connection cables and the covers.

Connecting the aerial

- The connecting cables are not provided.
- For further details, refer to the manuals provided with the devices to be connected.

Caution

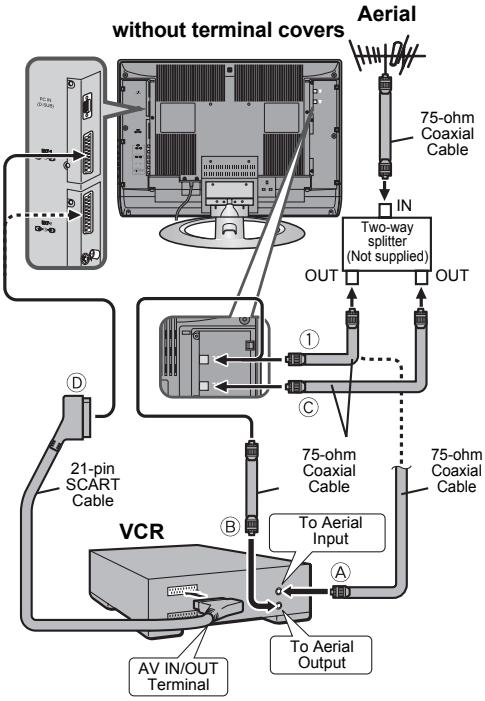
- Turn off all the equipment including the TV before connecting anything.

■ **If you connect via a device with an antenna terminal such as a VCR, follow Ⓐ → Ⓑ → Ⓒ → Ⓓ in the diagram opposite.**

■ **If you connect the antenna directly to the TV, follow ① → Ⓒ.**

To use the T-V LINK functions, you must have a T-V LINK compatible VCR connected by a SCART cable Ⓓ to the EXT-2 terminal on the TV. For details about T-V LINK functions, see "T-V LINK functions" on page 13.

- The two-way splitter is not included. Please supply one separately.
- If you are not going to watch Analogue terrestrial broadcasting, only connect Ⓒ. In this case, a two-way splitter is not necessary.
- To connect more equipment, please see "Connecting external equipment" on page 63.
- To connect additional audio equipment, see "Connecting speakers/amplifier" on page 66.
- If you connect a decoder to a T-V LINK compatible VCR, set the DECODER (EXT-2) function to ON. For details, see "" on page 57.
  Otherwise, you will not be able to watch scrambled channels.
- When receiving Digital terrestrial broadcasting (DVB-T), reception can suddenly be lost if the signal becomes weak. Use a correctly installed high-performance antenna.
- When connecting via a device with an antenna terminal such as a VCR, depending on the connection method, the signal may be weakened. If this happens, use a booster to increase the signal strength.
- In areas with a lot of radio communication such as near ports or airports, noise may be introduced into the picture or sound. In such cases, reception may be improved by using a high-performance antenna.
- Read the instruction manual of the devices which you connect to the TV.

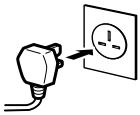


Connecting the power cord to the AC outlet

Insert the AC plug on the power cord from the TV into an AC outlet. The power lamp will light red and the TV will enter standby mode.

Caution

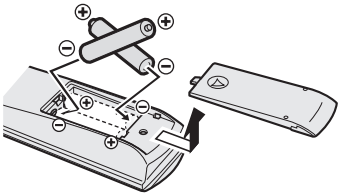
- Operate only from the power source specified (AC 110 – 240 V, 50/60 Hz) on the unit.



- Remove the AC plug from the outlet to completely disconnect the TV from the power supply.

Putting the batteries into the remote control

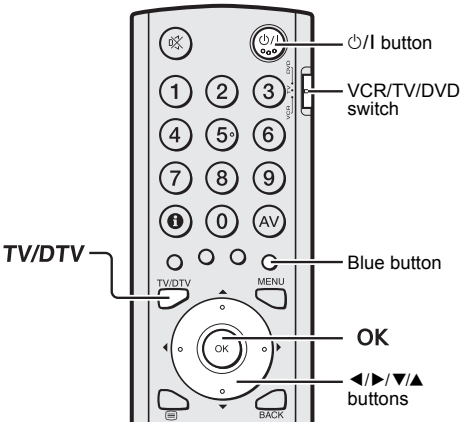
Use two AA/R6 dry cell batteries.
Insert the batteries from the ⊖ end, making sure the ⊕ and ⊖ polarities are correct.



- Follow the warnings printed on the batteries.
- Battery life is about six months to one year, depending on how much you use the remote control.
- The batteries we supply are only for setting up and testing your TV, please replace them as soon as you need to.
- If the remote control does not work properly, replace the batteries.

Initial settings

When the TV is first turned on, it goes into the initial settings mode, and you will see the JVC logo. Follow the instructions on the screen display to make the initial settings.



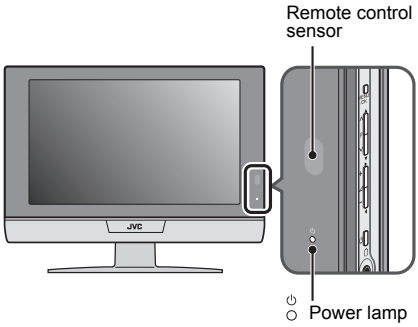
1 Make sure to set the VCR/TV/DVD switch on the remote control to the TV position

- You cannot turn the TV on when the VCR/TV/DVD switch is set to the VCR or DVD position.

2 Press the ⏻/I button on the remote control

The TV turns on from standby mode and the JVC logo is displayed.

- Check that the AC plug on the power cord from the TV is connected to AC outlet.

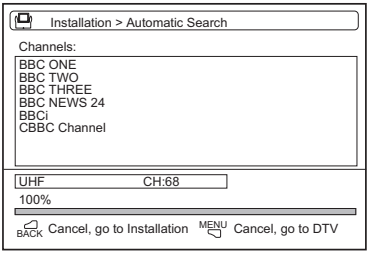


- If the JVC logo does not appear this is because your TV has already been turned on for the first time:
  Perform the initial settings with "Installation" (see page 34) in the DTV menu and "AUTO PROGRAM (Analogue)" (see page 53) in the SET UP menu.
- To receive SKY 1 you need a satellite tuner. You must have the satellite tuner set to SKY 1 before starting the AUTO PROGRAM function which follows.

3 Press the OK button

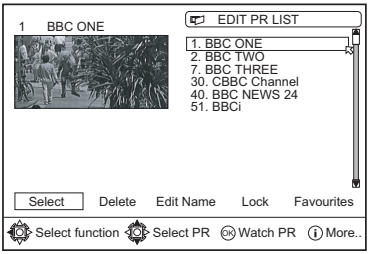
The Digital terrestrial broadcasting (DVB-T) Automatic Search starts.
The Digital terrestrial broadcasting (DVB-T) channels which can be received are automatically registered.

- In Ireland and some parts of the UK, Digital terrestrial broadcasting (DVB-T) cannot be received.
  If you are in these areas, continue to step 4.



D0201-EN

When the Automatic Search has finished, the EDIT PR LIST menu appears

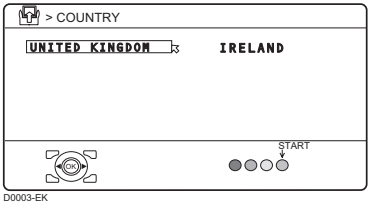


D0202-EN

- If you want to, you can now edit the programme numbers (PR) using the EDIT PR LIST function. For details, see "Edit PR List" on page 32.
- If you do not want to edit programme numbers (PR), go to the next step.

4 Press the MENU button

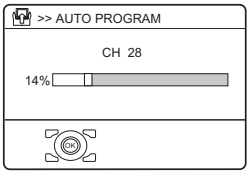
The COUNTRY menu appears.



D0003-EK

5 Press the ◀/▶ button to choose the country, and then press the blue button

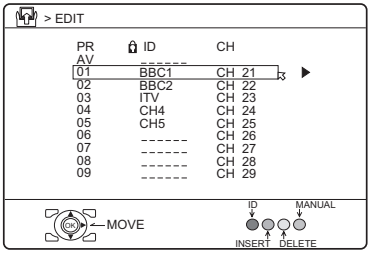
The Analogue terrestrial broadcasting AUTO PROGRAM starts.
The AUTO PROGRAM menu appears and received TV channels are automatically stored in the programme numbers (PR).



D0004-EN

- To cancel the AUTO PROGRAM function:
  Press the **TV/DTV** button.

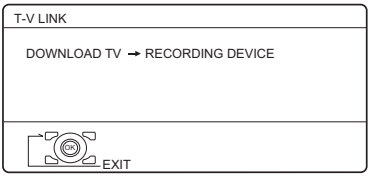
After the AUTO PROGRAM has finished, the EDIT menu appears



D0038-EK

- If you want to, you can now edit the programme numbers (PR) using the EDIT/MANUAL function. For details, see “EDIT/MANUAL (Analogue)” on page 53.
- If you do not want to edit programme numbers (PR), go to the next step.

6 Press the OK button to display the T-V LINK menu



D0005-EN

If you do not have a T-V LINK compatible VCR connected:
Press the **TV/DTV** button to exit the T-V LINK menu.
The T-V LINK menu disappears.

If you have a T-V LINK compatible VCR connected to the EXT-2 terminal:
Follow the operating procedure “Downloading the data to VCR” on page 12 to transmit the Programme number (PR) data.

Now, the initial settings are complete, and you can watch the TV

- **When the COUNTRY setting is UNITED KINGDOM:**
  The Analogue terrestrial broadcasting channels BBC1, BBC2, ITV, Channel 4 and Channel 5 are automatically set to the programme numbers PR1 to PR5. If the TV doesn’t receive one of these TV channels, that programme number (PR) will not be set. Programme number PR6 is not normally set.
- **When the COUNTRY setting is IRELAND:**
  If a TV channel you want to view is not set to a programme number (PR), you can set it manually. To set an Analogue terrestrial broadcasting channel, see “EDIT/MANUAL (Analogue)” on page 53.
- The AUTO PROGRAM function does not set the programme number PR 0 (AV) for your video cassette recorder. You will need to set this using the MANUAL function.

For users in the UK:
If you have any problems setting up your new TV, please call the JVC Helpline on **0870 330 5000**.

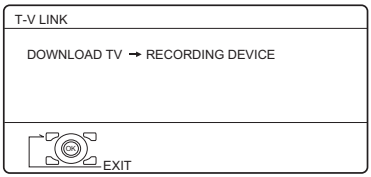
For users in the Republic of Ireland:
If you have any problems setting up your new TV, please call the JVC Helpline on **1890-582500**.

■ Downloading the data to VCR

You can transmit to the latest Analogue terrestrial broadcasting Programme numbers (PR) data to a VCR with the T-V LINK function.

Caution

- This only works when a T-V LINK compatible VCR is connected to the EXT-2 terminal.
- This only works when the T-V LINK menu is being displayed.

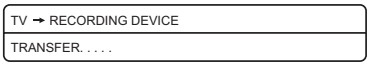


D0005-EN

1 Turn on the VCR

2 Press the OK button

The data transmission begins.



D0037-EN

The T-V LINK menu disappears once the data transmission ends.

When the T-V LINK menu is changed over to another menu:
The TV has finished its menu. This new menu is operated from the VCR. See the VCR instruction manual for what to do next.

If "FEATURE NOT AVAILABLE" appears at the T-V LINK menu:
Check the following three items. Then press the ◀ button to retry data transmission.

- Has a T-V LINK compatible VCR been connected to the EXT-2 terminal?
- Has the VCR power been turned on?
- Does the SCART cable that is connected to the EXT-2 terminal to T-V LINK compatible VCR have all its proper connections?

T-V LINK functions

When you have a T-V LINK compatible VCR connected to the EXT-2 Terminal on the TV, it is easier to set up the VCR and to view videos. T-V LINK uses the following features:

To use T-V LINK functions:
A "T-V LINK compatible VCR" means a JVC video cassette recorder with the T-V LINK logo, or with one of the following logos. However, these VCRs may support some or all of the features described earlier. For details, see your VCR instruction manual.

"Q-LINK" (a trademark of Panasonic Corporation)
"Data Logic" (a trademark of Metz Corporation)
"Easy Link" (a trademark of Phillips Corporation)
"Megalogic" (a trademark of Grundig Corporation)
"SMARTLINK" (a trademark of Sony Corporation).

■ Pre-set download

The VCR will automatically download the registered data on the TV Analogue terrestrial broadcasting channels from the TV. This means you do not need to set up the program channels on your VCR manually. The preset download function automatically begins when the initial setting is complete or whenever you carry out the AUTO PROGRAM or EDIT/MANUAL functions.

You can also carry out this function using your VCR controls.

When "FEATURE NOT AVAILABLE" is displayed:
If "FEATURE NOT AVAILABLE" is displayed, the download was not performed correctly. Before trying to download again, check that:

- the VCR power is turned on
- the VCR is T-V LINK compatible
- the VCR is connected to the EXT-2 terminal
- the SCART cable is fully wired.

■ Direct Rec

"What You See Is What You Record"

You can easily record to VCR the images that you are watching on the TV.

For details, read the manual for your VCR. Use your VCR controls. "DEVICE IS RECORDING" is displayed.

You cannot carry out Direct Rec using your TV's control.
Generally, the VCR cannot record a TV channel that it cannot receive properly on its own tuner, even if you can view that TV channel on the TV. However, some VCRs can record a TV channel by using the TV's output if that channel can be viewed on the TV. For details, see your VCR instruction manual.

Do not turn the TV off in the following cases.

- when recording images from an external device connected to the TV (for example a camcorder)
- when recording a TV channel after it has been unscrambled on a decoder
- when recording a TV channel by using the TV's output because the VCR's own tuner cannot properly receive that channel.
- when recording Digital terrestrial broadcasting (DVB-T).

If you change channels or perform other operations while a Digital terrestrial broadcasting (DVB-T) channel is being recorded, a window appears asking whether to stop the recording.

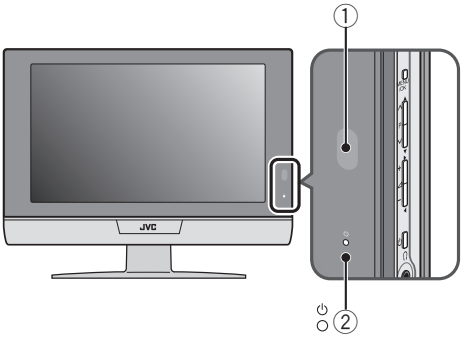
Press the OK button to stop the recording, or the TV/DTV button to continue the recording.

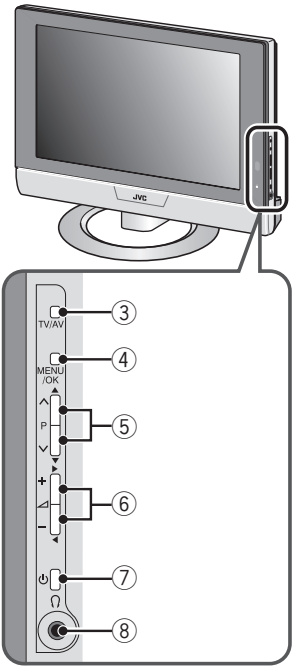
When the VCR is not ready, the following messages are displayed.

ERROR MESSAGE	Cause and countermeasure
NO RECORDING	The VCR is not able to record. Check the VCR.
NO RECORDING POSSIBLE	The TV input is set to EXT-4 or PC. Since the EXT-4 picture or PC picture cannot be output to EXT-2, DIRECT REC is not possible.
NO RECORDING, MEDIA PROBLEM	The RECORDING DEVICE is not ready to record. Check the VCR tape.
NO RECORDING, DEVICE BUSY	The RECORDING DEVICE cannot record as it is recording or playing. Check the VCR.

Refer to the VCR instruction manual.

Basic operations (TV)





① Remote control sensor
② Power lamp
③ TV/AV button
④ MENU/OK button
⑤ P ∨/∧ buttons
⑥ ◿ (Volume) −/+ buttons
⑦ ⏻ (Stand by) button
⑧ Headphone jack (mini jack)

Turn the TV on from standby mode

Press the ⏻ button or the P ∨/∧ buttons to turn the TV on from standby mode.
When the TV is turned on, the power lamp lights green.

To turn the TV off:
Press the ⏻ button again.

Caution

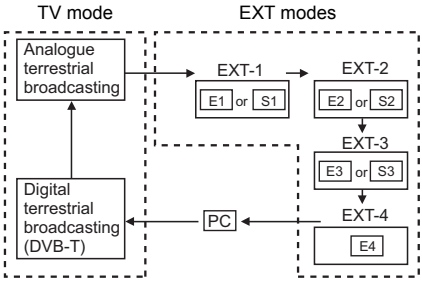
- The ⏻ button on the TV does not fully isolate the TV from the AC supply. If you are not going to use the TV for a long period, be sure to disconnect the AC plug from the AC socket.

Choose a TV channel

Press the P ∨/∧ buttons to choose a programme number (PR) or an EXT terminal
The EXT terminal cannot be chosen when watching Digital terrestrial broadcasting (DVB-T).

Watching images from external devices

Press the TV/AV buttons to choose an EXT terminal



Adjust the volume

1 Press the ◿ (Volume) button once
The volume level indicator appears.

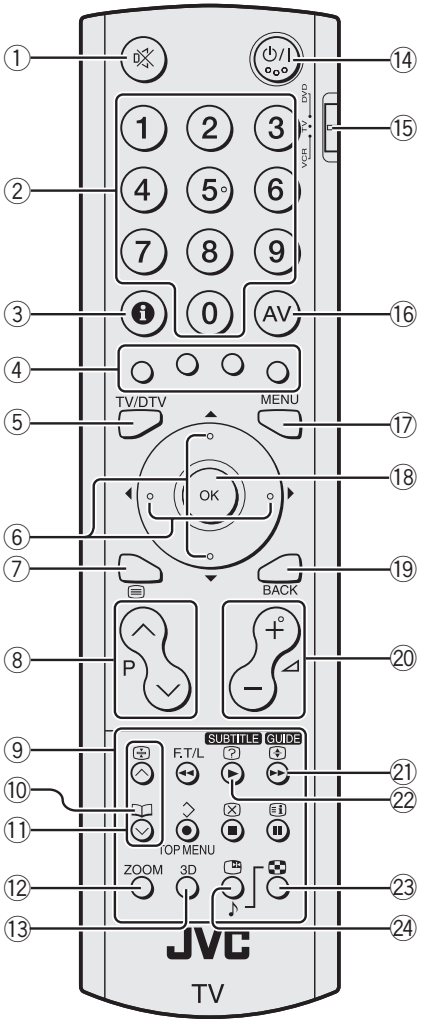
2 Press the −/+ buttons while the volume level indicator is displayed

Using the Menu

Use the MENU/OK button
Refer to "Setting the TV" (see page 43) for details of using the menu.

If the Digital terrestrial broadcasting (DVB-T) picture is unnatural:
Press the TV/AV button and MENU/OK button at the same time. The power will turn off and then on again, after which the picture may appear natural again.

Basic operations (Remote control)



① Muting button
② Number buttons
③ Information button
④ Colour button
⑤ **TV/DTV** button
⑥ ◀/▶/▼/▲ buttons
⑦ ☰ (Text) button
⑧ **P** ∨/∧ buttons
⑨ VCR/DVD/Teletext control buttons
⑩ 🕮 (Favourite) button
⑪ ∨/∧ buttons
⑫ **ZOOM** button
⑬ **3D** button
⑭ ⏻/**I** (Standby) button
⑮ VCR/TV/DVD switch
⑯ **AV** button
⑰ **MENU** button
⑱ **OK** button
⑲ **BACK** button
⑳ ◿ (Volume) −/+ buttons
㉑ **GUIDE** button
㉒ **SUBTITLE** button
㉓ ✿ (Multi) button
㉔ 🖵/♪ (Freeze/Select) button

Turn the TV on or off from standby mode

Press the ⏻/I (standby) button to turn the TV on or off.
When the TV is turned on, the power lamp lights green.

- The power can be turned on by pressing the **TV/DTV** button, **P** ∨/∧ buttons or Number buttons.

To turn the TV on or off, set the VCR/TV/DVD switch on the remote control to the TV position and press the ⏻/I button.
If the VCR/TV/DVD switch on the remote control is set to a position other than TV, the TV will not be turned on or off even if the ⏻/I button is pressed.

Choose a TV channel and watch images from external devices

■ Switching between Digital terrestrial broadcasting (DVB-T) and Analogue terrestrial broadcasting.

Press the TV/DTV button.
The broadcasting is switched every time the button is pressed.

■ Use the number buttons: Enter the programme number (PR) of the channel using the number buttons.

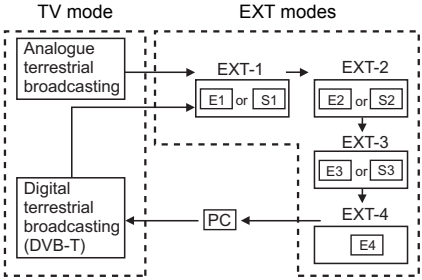
Example:

- PR 6 → press **6**
- PR 12 → press **1** and **2**
- PR 123 → press **1**, **2** and **3**

■ Use the P ∨/∧ buttons: Press the P ∨/∧ buttons to choose the programme number (PR) you want.

- For Digital terrestrial broadcasting (DVB-T), if the FAVOURITE setting in the "Edit PR List" (see page 32) has been set, only that programme number (PR) can be chosen.
- For Analogue terrestrial broadcasting, an EXT terminal can also be chosen.

■ Use the AV button: Press the AV button to choose an EXT terminal.

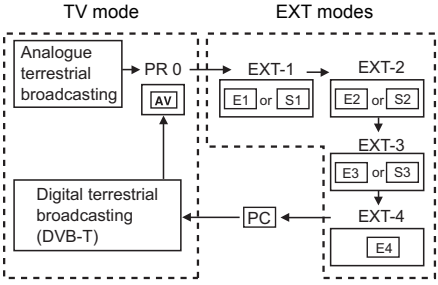


- You can choose a video input signal from the S-VIDEO signal (Y/C signal) and regular video signal (composite signal). For details, see "S-IN (S-VIDEO input)" on page 59.
- If you do not have a clear picture or no colour appears, change the colour system manually. See "COLOUR SYSTEM" on page 48.
- If you choose an EXT terminal with no input signal, the EXT terminal number becomes fixed on the screen.
- This TV set has a function which can automatically change over the input according to a special signal output from an external device. (The EXT-3 terminal does not support this function.)
  – When EXT-4 is chosen, motion differs according to the "COMPONENT AUTO SELECT" setting in the SET UP menu.
  For details, see "COMPONENT AUTO SELECT" on page 58.

- Since this TV is designed to make full use of the resolution of the original video source, the motion may appear unnatural when the video source is input with progressive-scanning component signals. If this happens, change the output setting of the connected device to interlace-scanning component signal output. See the instructions that came with the device for more information.
- The PC sound is the same as the EXT-3 sound.

To return to a TV channel:
Press the **TV/DTV** button, the **P** ∨/∧ buttons or the number buttons.

To use the programme number PR 0 (AV):
When the TV and VCR are connected only by the aerial cable, choosing the programme number PR 0 (AV) allows you to view images from the VCR. Set the VCR RF channel to the programme number PR 0 (AV) manually. For details, see "EDIT/ MANUAL (Analogue)" on page 53.
Pressing the **AV** button changes the choice as follows:



- The VCR sends its playback image along the aerial cable as an RF (radio frequency) signal.
- Also see your VCR instruction manual.

Adjust the volume

Press the ◿ −/+ buttons to adjust the volume.
The volume level indicator appears and the volume changes as you press the ◿ −/+ buttons.

■ Muting the sound

Press the 🔇 (muting) button to turn off the sound.
Pressing the 🔇 (muting) button again restores the previous volume level.

ZOOM function

You can change the screen size according to the picture aspect ratio. Choose the optimum one from the following ZOOM modes.

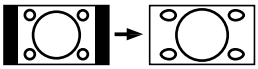
AUTO:
When a WSS (Wide Screen Signalling) signal, which shows the aspect ratio of the picture, is included in the broadcast signal or the signal from an external device, the TV automatically changes the ZOOM mode to 16:9 ZOOM mode or FULL mode according to the WSS signal.
If a WSS signal is not included, the picture is displayed according to the ZOOM mode set with the 4:3 AUTO ASPECT function.

- For details of the 4:3 AUTO ASPECT function, see "4:3 AUTO ASPECT" on page 48.
- When the AUTO (WSS) mode does not function correctly due to poor WSS signal quality or when you want to change the ZOOM mode, press the **ZOOM** button and change to another ZOOM mode.
- When watching a 16:9 FULL programme with Digital terrestrial broadcasting (DVB-T), the aspect ratio is FULL.

REGULAR:
Use to view a normal picture (4:3 aspect ratio) as this is its original shape.



PANORAMIC:
This stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the screen, without making the picture appear unnatural.

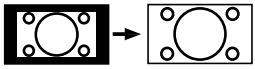


- The top and bottom of the picture are slightly cut off.

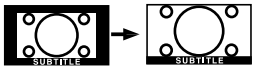
14:9 ZOOM:
This zooms up the wide picture (14:9 aspect ratio) to the upper and lower limits of the screen.



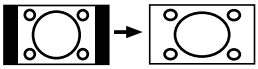
16:9 ZOOM:
This zooms up the wide picture (16:9 aspect ratio) to the full screen.



16:9 ZOOM SUBTITLE:
This zooms up the wide picture (16:9 aspect ratio) with subtitles to the full screen.



FULL:
This uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.

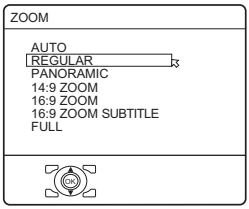


- For 16:9 aspect ratio pictures that have been squeezed into a normal picture (4:3 aspect ratio), use the FULL mode to restore the picture to its original shape.

- When you use this TV's output signal to record a Digital terrestrial broadcasting (DVB-T) 16:9 broadcast, it will be recorded with its picture squeezed into a 4:3 aspect ratio picture.
  Use the FULL mode to restore the picture to its original shape when playing the recording.

■ Choose the ZOOM mode

1 Press the ZOOM button to display the ZOOM menu



2 Press the ▼/▲ buttons to choose a ZOOM mode. Then press the OK button

The picture expands and the chosen ZOOM mode is displayed in about 5 seconds.

- The ZOOM mode may be automatically changed by the control signal from an external device. When you want to return to the previous ZOOM mode, choose the ZOOM mode again.

■ Adjusting the visible area of the picture

If subtitles or the top (or bottom) of the picture are cut off, you can adjust the visible area of the picture manually.

1 Press the ZOOM button

The ZOOM menu appears.

2 Press the OK button to display the ZOOM mode indicator

The indicator appears.



3 While it is displayed, press the ▼/▲ buttons to change the position of the picture

- You cannot adjust the visible area in REGULAR or FULL mode.

- The visible area adjustment is saved even after the TV channel is changed. However, it is cancelled if the following operations are performed.
  – The power is turned off/on
  – The ZOOM mode is changed
  – The (Multi) button, (Freeze) button, or (Text) button is pressed
  – The TV is switched between TV mode and EXT mode
- Some menu displays can be cut off when you move the visible area up or down while watching Digital terrestrial broadcasting (DVB-T).

3D SOUND function

You can enjoy sounds with a wider ambience.

- This function does not work for the sound from headphones.

Press the 3D button to select one of 3D SOUND modes

HIGH/LOW:
When you listen to stereo sound, please select HIGH or LOW mode.
You can enjoy sound similar to the experience at the theatre.
When you combine the functions of A.H.B. and BBE, you can enjoy more powerful sound.

- When you set the 3D SOUND function to HIGH mode, there may be slight volume distortion. If that occurs, please switch to LOW mode. The effect of 3D SOUND functions will be less noticeable, but the volume distortion will be corrected.

MONO:
Select the MONO mode, when you listen to the mono sound.
You can enjoy the sound for a wider audience similar to stereo sound.

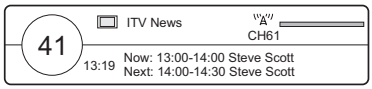
OFF:
The 3D SOUND function switches off.

- You can choose the 3D SOUND mode with the “SOUND menu” (see page 49).

Operation while watching DTV

Information function

When the ⓘ (Information) button is pressed, the programme information appears for approximately 1 minute.



D0203-EN

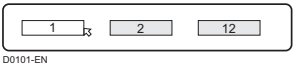
- When the ⓘ (Information) button is pressed while the information is being displayed, the information disappears.

- The time display in the programme information uses the time information which is included in the Digital terrestrial broadcasting (DVB-T). Depending on the channel, the time information may not be correct.

Using the "Multi-picture" function

1 Press the ⊠ button

The "Multi-picture" menu appears.



D0101-EN

2 Press the ◀/▶ buttons and choose 2, then press the OK button



Choose to return to one screen.

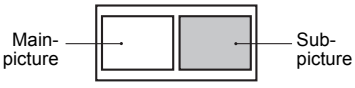
D0102



Choose to change to 2-pictures multi.

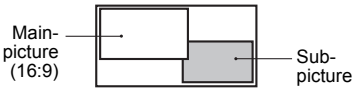
D0103

2-pictures multi:



D0056

With 1125i and 750p signals, the screen is split into two as shown below.



D1056



This cannot be chosen when watching Digital terrestrial broadcasting (DVB-T).

D0104

- You can watch Digital terrestrial broadcasting (DVB-T) in the main-picture. You can watch the Analogue terrestrial broadcasting or EXT picture in the sub-picture.
  When watching Digital terrestrial broadcasting (DVB-T) and Analogue terrestrial broadcasting at the same time, spilt the antenna and connect it to both the digital and analogue antenna terminals. (See page 9.)
- When the Digital terrestrial broadcasting (DVB-T) in the main-picture is 16:9 FULL, the main-picture aspect ratio is 16:9.
- When set to 2-pictures multi, the main-picture sound from the TV speaker can be changed to the sub-picture sound by pressing the ♪ button. (The speaker mark moves from the main-picture to the sub-picture.)
  The sound changes to the main-picture sound if the ♪ button is pressed again. When the headphones are connected, you can listen to the sound from the side at which the headphone mark is displayed. No sound comes from the TV speaker.
- Choose the main-picture channel by pressing the **P** ∨/∧ buttons. Choose the sub-picture channel by pressing the ∨/∧ buttons.
- The "Multi-picture" function does not work for a PC signal.

- 1125i, 625p, and 525p signal pictures cannot be displayed as the sub-picture.
- The BLUE BACK function does not work when the “Multi-picture” function is being used.
- The ZOOM function does not work when the “Multi-picture” function is being used.

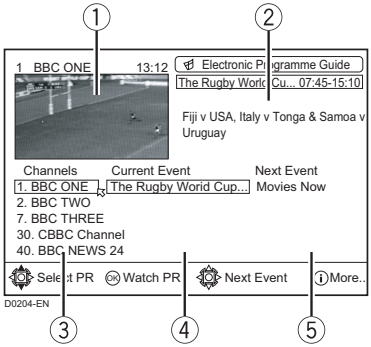
To return the multi-picture to one screen:

Press the ⊞ button, press the ◄/► buttons to choose one screen, and then press the **OK** button.

- Pressing the **TV/DTV** button will also return the display to one screen.

Using the Electronic Programme Guide (EPG)

The EPG screen appears when the **GUIDE** button is pressed while watching Digital terrestrial broadcasting (DVB-T).



① Quarter-screen
The programme you are watching is shown.
- Sometimes you may notice a drop in picture quality while watching your programme in the quarter-screen. This is not a fault.

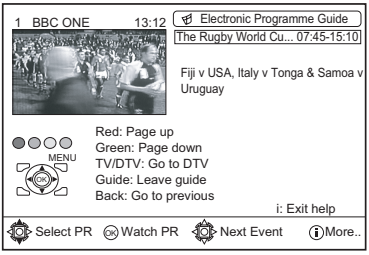
② Programme name, broadcast time and brief description of programme
The programme name, broadcast time and a brief description of the programme are displayed for the programme chosen from the current event column or next event column.

③ Channel column

④ Current event column

⑤ Next event column

Press the ⓘ (Information) button to display the help screen. Press it again to return to the EPG screen.



D0205-EN

Help screen

■ Choosing a channel

1 Press the ▼/▲ buttons and choose a channel

The programme name, broadcast time and a brief description of the programme are displayed.

- Press the red and green buttons to scroll the channel column.

2 Press the OK button

The chosen programme appears on the quarter-screen.

- When the **GUIDE**, **TV/DTV**, **MENU** or **BACK** buttons are pressed, the EPG screen disappears and the normal screen returns.

■ Set reminder

When you schedule a programme, you will not miss a programme that you want to watch.

1 Press the ◀/▶ buttons and choose the Next Event column

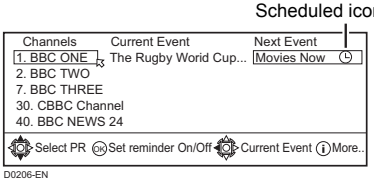
2 Press the ▼/▲ buttons and choose the program that you want to schedule

The programme name, broadcast time and a brief description of the chosen programme are displayed.

- Press the red and green buttons to scroll the channel column.

3 Press the OK button

The scheduled icon appears at the right of the chosen programme and the scheduling is completed.



D0206-EN

- Steps 1 to 3 can be repeated to schedule more programmes.
- When the **GUIDE**, **TV/DTV**, **MENU** or **BACK** buttons are pressed, the EPG screen disappears and the normal screen returns.

When the TV is being watched, it automatically changes to the channel of the scheduled programme when the start time of the scheduled program is reached.

- The scheduling function does not work when the TV is turned off.

Cancelling a scheduled programme.

Display the EPG screen, choose a programme which has the scheduled icon (◷), and press the **OK** button.
The icon disappears and the scheduling is cancelled.

■ Checking programme details

Press the ◀/▶/▼/▲ buttons and choose a programme from the Current Event or Next Event columns

The programme name, broadcast time and a brief description of the chosen programme appear.

- Press the red and green buttons to scroll the channel column.

- When the **GUIDE**, **TV/DTV**, **MENU** or **BACK** buttons are pressed, the EPG screen disappears and the normal screen returns.

Displaying the Subtitles

With Digital terrestrial broadcasting (DVB-T), some programmes are broadcast with subtitles. Subtitles can be displayed when watching these programmes.

Press the SUBTITLE button when watching Digital terrestrial broadcasting (DVB-T)

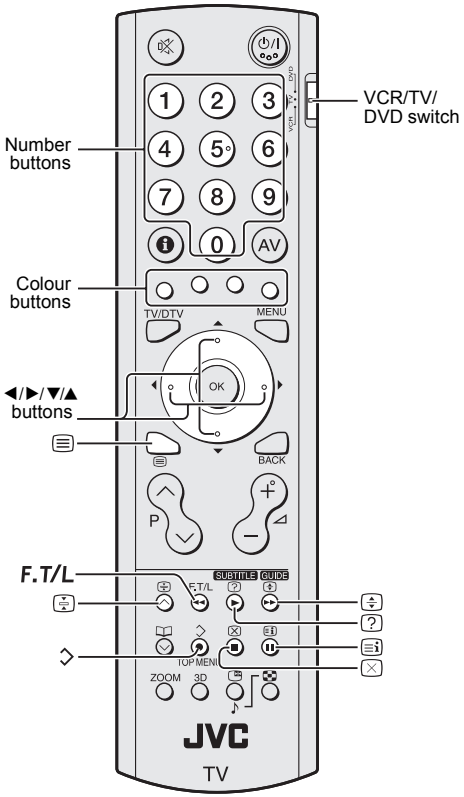
"Subtitle ON" appears at the top-left of the screen and, when the programme has subtitles, the subtitles are displayed.



D0207-EN

- When the **SUBTITLE** button is pressed again, "Subtitle OFF" appears and the subtitles disappear.

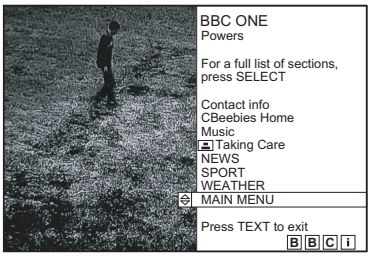
Digital Teletext function



With Digital terrestrial broadcasting (DVB-T), in addition to pictures and sound, you can also watch digital teletext.
Digital teletext is sometimes broadcast at the same time as normal broadcasting.

1 Press the ☰ button

The digital teletext information appears.



D0208-EN

2 Operate it with the colour buttons, ◄/►/▼/▲ buttons and OK button

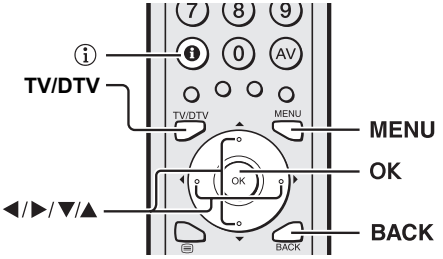
The operation method may differ depending on the contents of the digital teletext. Follow the instructions displayed on digital teletext screen.

- When “Press SELECT” or similar message appears on the screen, press the **OK** button.

- When the ☰ (Text) button is pressed, the TV returns to television broadcasting.
- With Digital terrestrial broadcasting (DVB-T), in addition to digital teletext broadcasting at the same time as normal broadcasting, there are also channels with just digital teletext broadcasting.
- The aspect ratio when watching a channel with just digital teletext broadcasting is the same as the aspect ratio of the picture watched previously.
- When you press the ☰ (Text) button while subtitles are on, the subtitles are turned off. When you press the ☰ (Text) button again, the digital teletext screen is displayed.

Operation with the DTV menu

Buttons used to operate the menus



Displaying the DTV menu

1 Press the MENU button to display the menu bar



D0105-EN

- DTV in the menu bar can only be chosen when watching Digital terrestrial broadcasting (DVB-T).

2 Press the ◀/▶ buttons to choose the DTV

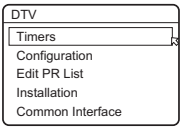


D1105-EN

Chosen menu name

3 Press the OK button

The DTV menu appears.



D0209-EN

4 Press the ▼/▲ buttons to choose the item

- Press the **BACK** button to return to the previous menu.
- Press the **TV/DTV** or **MENU** button to exit from the menu.

- For menu items other than DTV, see page 43.

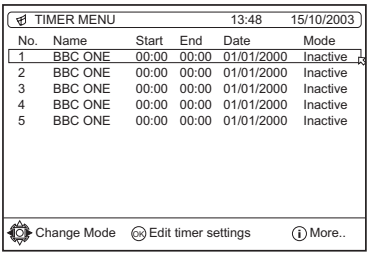
Timers (DTV Timer Recording)

By setting the timer, you can record a Digital terrestrial broadcasting (DVB-T) programme with a VCR connected to EXT-2 while you are out.

- Before using DTV timer recording, the VCR and TV must be connected up correctly. For details, see “Connection when recording to VCR” on page 65.
- When you have a T-V LINK compatible VCR connected to EXT-2, all you need to do is set the TV timer settings and the programme will be recorded.
  By using “Direct Rec” of the T-V LINK function, the Direct Rec commands are sent from the TV to the VCR to automatically start and end the recording. It is not necessary to set the timer on the VCR.
- When your VCR is not T-V LINK compatible, you also need to set the VCR timer settings to match the TV timer settings.
- The recording may not start and stop at exactly the right times for some programmes. It is recommended that you allow some leeway when setting the recording times.
- Provided that the days and times are not the same, you can set up to five timer settings.
- When subtitles are ON, the subtitles displayed with the broadcast will be recorded. When you do not want to record the subtitles, you need turn OFF the Subtitle setting beforehand (See “Displaying the Subtitles” on page 25.).
- During DTV timer recording, you are unable to view the SET UP menu or the DTV menu.

1 Choose Timers and press the OK button

The TIMER menu appears.

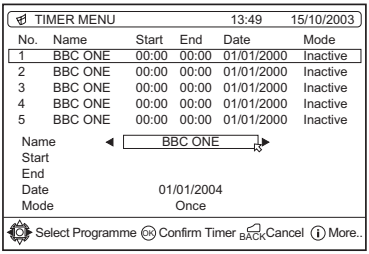


D0210-EN

- When the ⓘ (Information) button is pressed, the help screen appears. When it is pressed again, the previous screen is returned to.

2 Press ▼/▲ buttons to choose the timer number, and then press the OK button

The timer setting window appears.



D0211-EN

3 Use the ◀/▶/▼/▲ buttons, number buttons and OK button to set the timer

- When setting the start time and end time, input 1200 for 12:00 PM, 1500 for 3:00 PM and 0000 for 12:00 AM.

Name:
Use the ◀/▶ buttons to choose the channel for which the timer is to be set.

Press the ▼ button.

Start:
Set the timer start time with the number buttons.

- When the ◀/▶ buttons are pressed, the input position moves.

Press the ▼ button.

End:
Set the timer end time with the number buttons.

- When the ◀/▶ buttons are pressed, the input position moves.

Press the ▼ button.

Date:
Set the date for the timer to work with the number buttons.

- When the ◀/▶ buttons are pressed, the input position moves.

Press the ▼ button.

Mode:
Use the ◀/▶ buttons to choose the timer mode (Once/Daily/Weekly), and then press the **OK** button.

4 Prepare your VCR for recording

When recording on a T-V LINK compatible VCR:

1. Insert the videotape for recording into the VCR and set the recording mode.
2. Make sure the VCR is ready to receive Direct Rec commands from the TV.
   - Make sure other VCR timer settings do not coincide with the TV timer settings.
   - For details, see your VCR instruction manual.

When recording on a T-V LINK incompatible VCR:

1. Insert the videotape for recording into the VCR and set the recording mode.
2. Set the VCR recording timer settings.
   - Make the start and end time match that of the TV timer.
   - Set the VCR to record the signal from the external input that the TV is connected to.
   - For details, see your VCR instruction manual.

When you have finished Step 4, you have set the timer.

When you are not watching TV, make sure the TV is in standby.

The TV power lamp begins flashing at three minutes before the timer start time. If you are watching TV at the time, a message appears on the screen to inform you the timer is about to start.
If the TV is in Standby, the power lamp lights orange while timer recording is in progress.

- When performing timer recording with a T-V LINK compatible recording device, test the timer recording before you record the programme. There are some T-V LINK compatible recording device that will not correctly receive the Direct Rec command from the TV.
  If the recording device does not operate when the recording start time is reached, it is not receiving the Direct Rec command from the TV. In this case, follow the instructions of "When recording on a T-V LINK incompatible VCR:".

While the timer is in operation:

- You can turn the TV on or off (Standby). WARNING: Do not turn off the main power.
- You can watch Analogue terrestrial broadcasting channels or the pictures via an EXT terminal.
- Please note that any programme information that appears on the screen, such as when making changes to the Digital terrestrial broadcasting (DVB-T) channel picture, will be superimposed over the picture in the VCR recording.
- You cannot change Digital terrestrial broadcasting (DVB-T) channels while recording.

Cancelling and resetting the timer setting:

Cancelling the timer setting

Display the TIMER MENU and press the ▼/▲ buttons to choose which timer setting to cancel. Press the ◄/► buttons so that "Inactive" appears in the Mode column.

Reactivating the cancelled timer setting

Display the TIMER MENU and press the ▼/▲ buttons to choose which timer setting to reactivate. Press the ◄/► buttons so that "Active" appears in the Mode column.

Aborting timer recording

Display the Digital terrestrial broadcasting (DVB-T) channel picture on the screen and press the ⓘ (Information) button. A window will appear asking if you want to stop the recording. Press the **OK** button to abort the recording. If you want to continue recording, press the **TV/DTV** button.

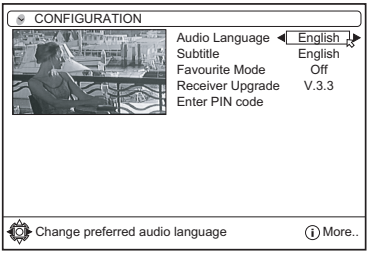
- If, while attempting to perform timer recording to a T-V LINK compatible VCR, the TV timer operation starts but the VCR does not start recording, the problem is with the VCR. Resolve the VCR-related problem and see "Aborting timer recording" to abort the recording. After this is done, reset the timer.
- When you are watching TV at the recording start time, you may see an error message stating that recording could not start because of a VCR-related problem. See "Direct Rec" on page 13, which lists and explains each error message.

Configuration

Set the basic setting for watching Digital terrestrial broadcasting (DVB-T).

Choose configuration and press the OK button

CONFIGURATION appears.



D0212-EN

- When the **BACK** button is pressed, the previous screen is returned to. When the **TV/DTV** or **MENU** buttons are pressed, the menu disappears.
- When the ⓘ (Information) button is pressed, the help screen appears. When it is pressed again, the previous screen is returned to.

■ Audio Language

With Digital terrestrial broadcasting (DVB-T), a number of languages can be broadcast at the same time. Choose the language you want to listen to when watching these broadcasts.

1 Press the ▼/▲ buttons and choose Audio Language

2 Press the ◀/▶ buttons and choose the language

The language changes every time the button is pressed.

- If the selected language is not broadcast, the default language will be played.

■ Subtitle language

With Digital terrestrial broadcasting (DVB-T), a number of subtitles can be broadcast at the same time. Choose the subtitle you want to display when watching these broadcasts.

1 Press the ▼/▲ buttons and choose Subtitle

2 Press the ◀/▶ buttons and choose a subtitle language that appears when the SUBTITLE button is pressed

The subtitle language changes every time the button is pressed.

■ Favourite Mode

Enable/disable the Edit PR List Favourites settings.

1 Press the ▼/▲ buttons and choose Favourite Mode

2 Press the ◀/▶ buttons and choose ON or OFF

On:

The Edit PR List Favourites settings are enabled.

When the **P** ∨/∧ button is pressed, only the channels chosen in the Edit PR List Favourites (those with the icon) can be chosen.

- For details on how to set your favourite channels, see “Setting the favourite channels” on page 34.

Off:

The Edit PR List Favourites settings are disabled

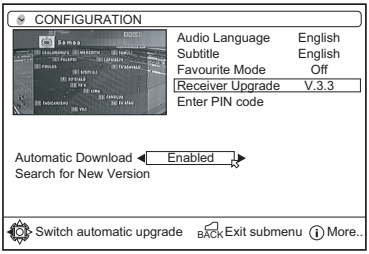
When the **P** ∨/∧ button is pressed, all the channels registered in the Edit PR List can be chosen.

■ Receiver Upgrade

Set the method to upgrade the Digital terrestrial broadcasting (DVB-T) receiver software.

1 Press the ▼/▲ buttons and choose Receiver Upgrade, and press the OK button

The setting window appears.



D0213-EN

- The actual version may be different to the Receiver Upgrade version displayed above.

2 Press the ▼/▲ buttons and choose Automatic Download, and press the ◀/▶ buttons to choose Enable or Disable

Enable (factory settings):
The Digital terrestrial broadcasting (DVB-T) software is automatically updated every day at 3:00 am. When enabled, the TV also searches for new software whenever it goes to standby.

Disable:
The Digital terrestrial broadcasting (DVB-T) software is not automatically updated.

Manually updating the Digital terrestrial broadcasting (DVB-T) information

Press the ▼/▲ buttons and choose Search for New Version, then press the OK button

The Digital terrestrial broadcasting (DVB-T) information is updated.

In the future, there is a possibility that the Receiver Update function may also be able to be used to update the Digital terrestrial broadcasting (DVB-T) software and add new functions.

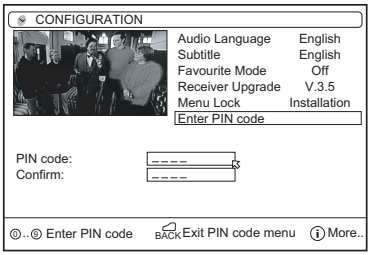
■ Enter PIN code

Choose Enter PIN code to change the PIN code for the Edit PR List menu's "Lock". The PIN code factory setting (how it is set when you purchase the television) is 0000.

1 Press the ▼/▲ buttons and choose Enter PIN code, then press OK button

2 Input the current PIN code

When you are making this setting for the first time, input 0000.
When a PIN code has already been set, enter the correct PIN code.
The PIN code setting window appears.



D0225-EN

3 Press the number buttons to input a new PIN code (password)

4 Input the new PIN code (password) again in the Confirm box

Your newly chosen PIN code is now set. You will now need to use the PIN code (password) you chose here to lock or unlock the Edit PR List's "Lock".

Edit PR List

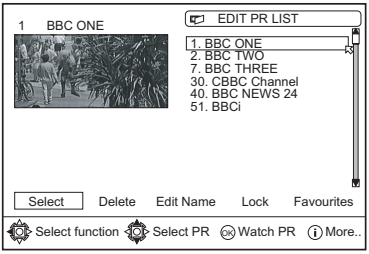
The Edit PR List can be used to do the following:

- delete registered channels
- edit channel names
- lock channels so that they cannot be watched by children
- set Favorites so that you can easily choose from only the channels you often watch.

Choose Edit PR List and press the OK button

EDIT PR LIST appears.

- Sometimes you may notice a drop in picture quality while watching your programme in the quarter-screen. This is not a fault.



D0202-EN

- When the **BACK** button is pressed, the previous screen is returned to. When the **TV/DTV** or **MENU** buttons are pressed, the menu disappears.
- When the ⓘ (Information) button is pressed, the help screen appears. When it is pressed again, the previous screen is returned to.

■ Choosing a channel

The chosen channel is shown on the quarter-screen.

1 Press the ◀/▶ buttons and choose Select on the bar at the bottom of the screen

2 Press the ▼/▲ buttons and choose a channel, and then press the OK button

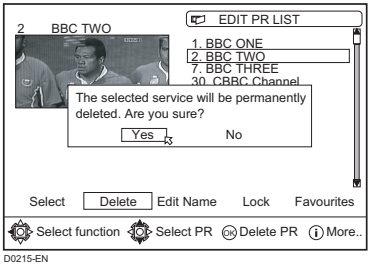
The picture of the chosen channel is shown on the quarter-screen.

■ Deleting a channel

1 Press the ◀/▶ buttons and choose Delete on the bar at the bottom of the screen

2 Press the ▼/▲ buttons and choose the channel to be deleted, and then press the OK button

The channel deletion confirmation window appears.



D0215-EN

3 Choose Yes and press the OK button

The chosen channel is deleted.

- If you do not want to delete the chosen channel, choose No and press the **OK** button.

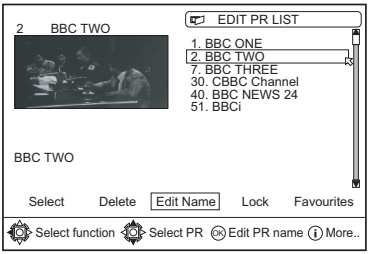
- Perform “Installation” (see page 34) to re-register a channel that you have deleted.

■ Editing a channel name

1 Press the ◀/▶ buttons and choose Edit Name on the bar at the bottom of the screen

2 Press the ▼/▲ buttons and choose the channel to be edited, and then press the OK button

The edit window appears.



D0216-EN

3 Press the ▼/▲ buttons and choose a character, press the ◀/▶ buttons to move the cursor and edit the name, and then press the OK button

The edited channel appears in the Edit PR List.

- Delete any unnecessary characters by entering spaces over them.

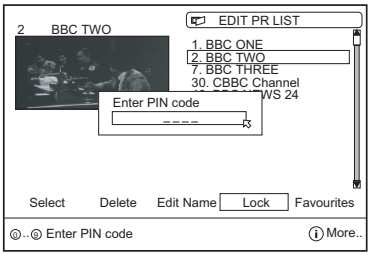
■ Locking a channel

Digital terrestrial broadcasting (DVB-T) channels can be locked in the same way as the FEATURES menu CHILD LOCK.

1 Press the ◀/▶ buttons and choose Lock on the bar at the bottom of the screen

2 Press the ▼/▲ buttons and choose the channel to be locked, and then press the OK button

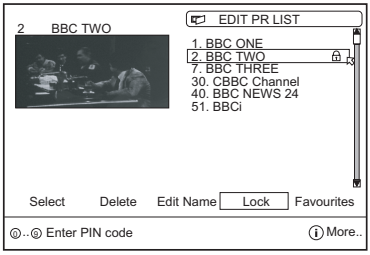
The Enter PIN code input window appears.



D0217-EN

3 Press the number buttons to input the correct PIN code and press the OK button

If you have not changed the PIN code in the CONFIGURATION menu's "Enter PIN code" (see page 31), input 0000.
If you have changed the PIN code in the CONFIGURATION menu's "Enter PIN code" (see page 31), input the PIN code you chose.
The lock icon appears next to the channel name in the Edit PR List.



D0218-EN

When a locked channel is chosen, the Enter PIN code input window will appear. If the correct PIN code is input, the picture appears.

- When you forget the PIN code for the "Lock", you can unlock locked channels by performing Automatic Search (see "Installation" on page 34).

■ Setting the favourite channels

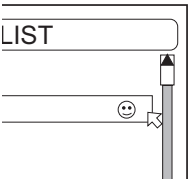
Channels that you often watch can be set as favourite channels. You can choose from just those channels when the **P** ∨//∧ buttons are pressed.

- After setting the favourite channels, check that "Favourite Mode" in "Configuration" (see page 30) is set to ON.

1 Press the ◀/▶ buttons and choose Favourites on the bar at the bottom of the screen

2 Press the ▼/▲ buttons and choose the channel to be registered as a favourite channel, and then press the OK button

The favourite icon appears to the right of the chosen channel.



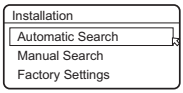
D0219-EN

Installation

Use when re-registering a channel or when registering a new channel.

1 Choose Installation and press the OK button

The Installation menu appears.

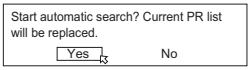


D0220-EN

2 Press the ▼/▲ buttons and choose the channel registration method, and then press the OK button

Automatic Search:
Choose to automatically register the channels that can be received.

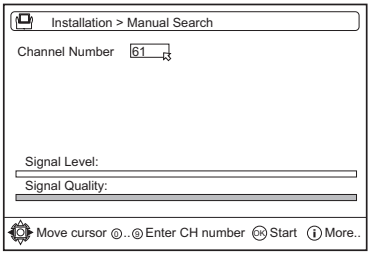
When Automatic Search is chosen and the **OK** button is pressed, the confirmation window appears.



D0221-EN

To perform Automatic Search, choose Yes and press the **OK** button.
To cancel, choose No and press the **OK** button.

Manual Search:
Choose to register a particular channel.



D0222-EN

Press the number buttons and input the channel that you want to register, and then press the **OK** button. The Manual Search starts and the input channel is registered if it can be received.

Factory Settings:
Choose when you have moved house etc and want to automatically re-register all the channels.
In addition to registering all the channels that can be received, it will reset the timer settings.

When Factory Settings is chosen and the **OK** button is pressed, the confirmation window appears.



D0223-EN

To perform Factory Settings, choose Yes and press the **OK** button.
To cancel, choose No and press the **OK** button.

Common Interface

Choose when a pay television reception module is inserted into the Common Interface slot on the back of the TV, and you want to set the module.

When Common Interface is chosen and the **OK** button is pressed, the name of the inserted module appears. When the **OK** button is then pressed, the module setting menu appears.

- When no module is inserted, “No CI Module” appears.
- Refer to the module instruction manual for details of the settings.

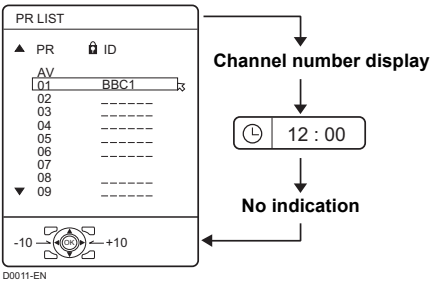
Operation while watching analogue TV

Information function

You can see the channel number of the programme you are watching, the current time or the PR LIST.
From the PR LIST, you can choose a channel or EXT terminal.

Press the ⓘ (Information) button to display the information you want to see.

Pressing the ⓘ (Information) button changes the display as follows:



D0011-EN

Channel number display:
The channel number and channel name (when the channel name is registered) of the programme you are watching or the EXT terminal number is displayed.

Time display:
The current time of the teletext data is displayed.
If the TV has not received a TV channel that has teletext programmes since it was turned on, the time display is blank. To view the current time, choose a TV channel that has teletext programmes.

- An incorrect current time is sometimes displayed when watching videos.

PR LIST:
The programme number (PR) and EXT terminal list is displayed.
Pressing the **OK** button after choosing the programme number (PR) or EXT terminal with the ◄/►/▼/▲ buttons will display the chosen programme or EXT terminal.

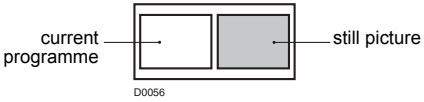
- For programme numbers (PR) for which the CHILD LOCK function is set, the 🔒 (CHILD LOCK) mark is displayed. For details see “CHILD LOCK” on page 50.
- For programme numbers (PR) which is registered as a favourite channel, the 🕮 (favourite) mark is displayed. For details see “Favourite channel function” on page 38.

Using the “Freeze” function

You can view the current programme as a still picture.

1 Press the button

The still picture of the current picture will appear.



To cancel the “Freeze” function:

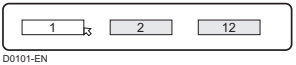
Press the button, the **P** ∨/∧ buttons or the number buttons.

- The “Freeze” function does not work while a sub-picture is displayed.
- The still picture cannot be output from the TV.
- The “Freeze” function does not work for picture of PC signal.

Using the “Multi-picture” function

1 Press the button

The “Multi-picture” menu appears.



2 Press the ◀/▶ buttons to choose the number of screens and then press the OK button



Choose to return to one screen.

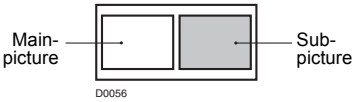


Choose to change to 2-pictures multi.

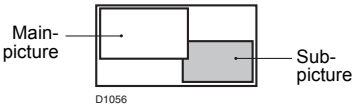


Choose to change to 12-pictures multi.

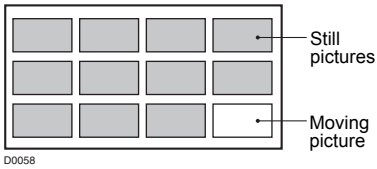
2-pictures multi:



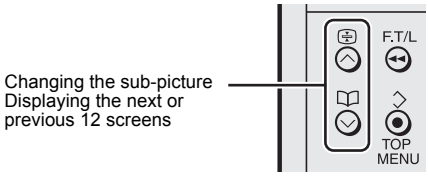
With 1125i and 750p signals, the screen is split into two as shown below.



12-pictures multi:



- When set to 2-pictures multi, you can view a TV picture and a picture from an external device. You cannot view a TV picture on more than one screen at the same time.
- When 12-pictures multi is set, pictures from external devices are not displayed.
- When set to 2-pictures multi, the main-picture can be changed by pressing the **P** ∨/∧ buttons. The sub-picture screen can be changed by pressing the ∨/∧ buttons.
  When set to 12-pictures multi and there are more than 12 pictures, the next or previous 12 screens can be displayed by pressing the ∨/∧ buttons.



- When set to 2-pictures multi, the main-picture sound from the TV speaker can be changed to the sub-picture sound by pressing the ♪ button. (The speaker mark moves from the main-picture to the sub-picture.)
  The sound changes to the main-picture sound if the ♪ button is pressed again. When the headphones are connected, you can listen to the sound from the side at which the headphone mark is displayed. No sound comes from the TV speaker.
- A picture of EXT-4 cannot be displayed as the sub-picture.
- The "Multi-picture" function does not work for a PC signal.
- You cannot view a scrambled channel in the sub-picture.
- When set to 12-pictures multi, press the ◄/►/▼/▲ buttons to choose the screen you want to view and the press the **OK** button to display that picture on the whole screen.
- The BLUE BACK function does not work when the "Multi-picture" function is being used.
- The ZOOM function does not work when the "Multi-picture" function is being used.

To return the "Multi-picture" to one screen:

Press the ⊞ button, press the ◄/► buttons to choose one screen, and then press the **OK** button.

- Pressing the **TV/DTV** button will also return the display to one screen.

Favourite channel function

You can register your favourite TV channels (PR 1 – PR 99) in the number buttons 1 to 4. After registering, the channel can be called by pressing the 🕮 (favourite) button and a number button 1 to 4.

■ Favourite channel registration

1 In the normal screen, choose a TV channel (PR 1 – PR 99) that you want to register

For details, refer to "Choose a TV channel and watch images from external devices" on page 18.

2 Press and hold the 🕮 (favourite) button for three seconds or more

Then "SET 1-4?" appears on the screen.

3 Press one of the number buttons 1 to 4

The current channel is registered in the pressed number button.
After "PROGRAMMED!" appears on the screen, the favourite channel icon appears at the top-right of the screen.

- If the channel you are trying to register is already registered in one of the other number buttons 1 to 4, "NOT AVAILABLE" appears on the screen.
- Channels locked with the CHILD LOCK function cannot be registered.
- If AUTO PROGRAM is performed, the registered favourite channels are reset.

- When you want to delete a favourite channel, delete the set channel and set contents with FAVOURITE SETTING (see page 52) in the FEATURES menu.

■ Calling the favourite channel

1 In the normal screen, press the 🕮 (favourite) button

Then “FAVOURITE1-4?” appears.

2 Press one of the number buttons 1 to 4

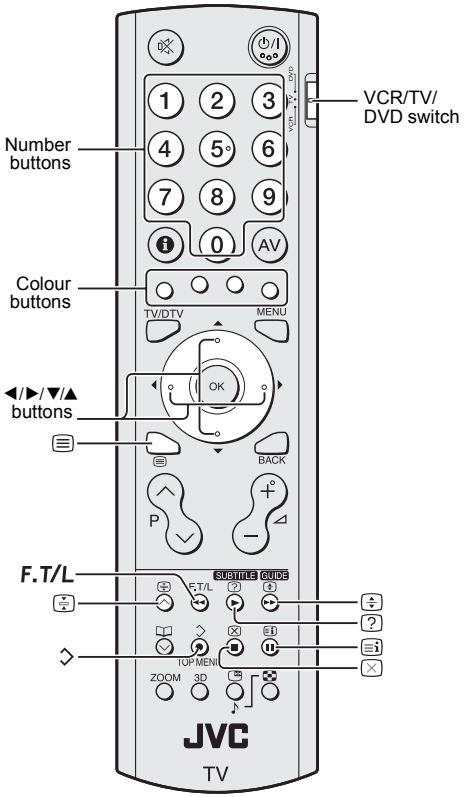
The called favourite channel appears on the screen.

- If a number button in which no channel is registered is pressed, “NO MEMORY” appears on the screen.

■ Setting the picture effect

When a favourite channel has been chosen with the 🕮 (favourite) button and number buttons 1 to 4, picture effect settings can be memorised for each favourite channel by setting the picture effects in the PICTURE menu (see page 45).
The following items in the PICTURE menu (see page 45) are memorised.
PICTURE MODE
BRIGHT-1
CONTRAST
BRIGHT-2
SHARP
COLOUR
HUE
COLOUR TEMP.
DIGITAL VNR
COLOUR SYSTEM
The last setting made for each item is memorised.

Analogue teletext function



Basic operation

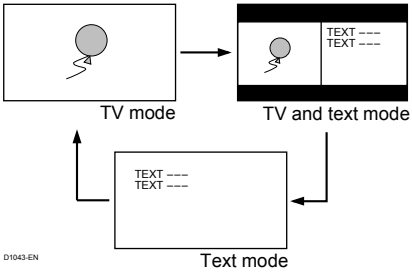
1 Choose a TV channel with a teletext broadcast

2 Set the VCR/TV/DVD switch to the TV position



3 Press ☰ (Text) button to display the teletext

Pressing ☰ (Text) button changes the mode as follows:



4 Choose a teletext page by pressing the P ∨/∧ buttons, number buttons or colour buttons

To return to the TV mode:
Press the **TV/DTV** button or ☰ (Text) button.

- If you have trouble receiving teletext broadcasts, consult your local dealer or the teletext station.
- The ZOOM function will not work in the TV and text mode or Text mode.
- You cannot operate menus when viewing a teletext programme.

Using the List Mode

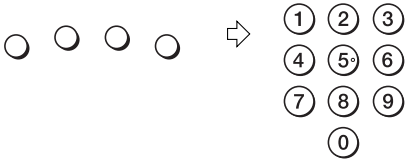
You can store the numbers of your favourite teletext pages in memory and call them up quickly using the colour buttons.

■ To store the page numbers:

1 Press *F.T/L* button to go into the List mode

The page numbers you have stored are displayed at the bottom of the screen.

2 Press a colour button to choose a position. Then press the number buttons to enter the page number



3 Press and hold down the ◇ (Store) button

The four page numbers blink white to show that they are stored in memory.

■ To call up a stored page:

1 Press the *F.T/L* button to enter the List mode

2 Press a colour button having a stored page

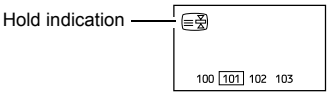


To exit the List mode:
Press the ***F.T/L*** button again.

Hold

You can hold a teletext page on the screen for as long as you want, even while several other teletext pages are being received.

Press the ⏸ (Hold) button



To cancel the Hold function:
Press ⏸ (Hold) button again.

Sub-page

Some teletext pages include sub-pages that are automatically displayed.

1 Choose a teletext page that includes sub-pages

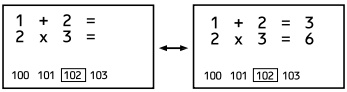
Sub-page numbers that can be viewed are automatically displayed at the top of the screen.

2 Press the ◀/▶ buttons to choose a sub-page number

Reveal

Some teletext pages include hidden text (such as answers to a quiz).
You can display the hidden text.

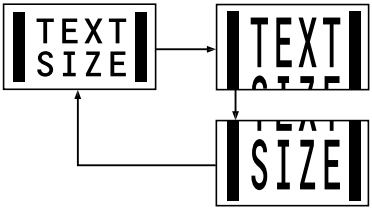
Each time you press the ? (Reveal) button, text is hidden or revealed



Size

You can double the height of the teletext display.

Press the ⇳ (Size) button



Index

You can return to the index page instantly.

Press the ☰ (Index) button

Returns to page 100 or a previously specified page.

Cancel

You can search for a teletext page while watching TV.

1 Press the number button to enter a page number, or press a colour button

The TV searches for a teletext page.

2 Press ⊠ (Cancel) button

The TV programme appears. When the TV finds the teletext page, its page number appears in the upper left of the screen.

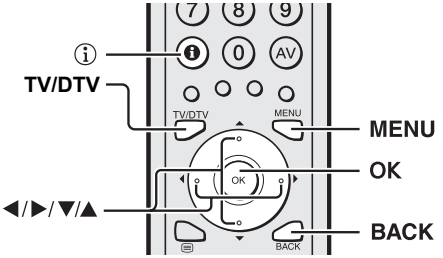
3 Press ⊠ (Cancel) button to return to a teletext page when the page number is on the screen

- The TV mode cannot be resumed by pressing the ⊠ (Cancel) button. To return to the TV mode press **TV**.

Setting the TV

Call the menu and perform the settings for the picture and sound.

Buttons used to operate the menus



Basic operation

1 Press the MENU button to display the menu bar



D2105-EN

2 Press the ◀/▶ buttons to choose the menu you want to use and then press the OK button



D3105-EN

Chosen menu

Chosen menu name

3 Press the ▼/▲ buttons to choose the item to be set, press the ◀/▶ buttons to set the item, and then press the OK button

If there are sub-menus, use the ◀/▶/▼/▲ buttons to operate them.

- Press the **BACK** button to return to the previous menu.
- Press the **TV/DTV** or **MENU** button to exit from the menu.
- Some menu items may not be operated or set depending on the TV status or other menu item settings.
  Menu items that cannot be operated or set are displayed in grey in the menu and cannot be chosen.

Types of menu


D0106

PICTURE menu (see page 45)


D0107

SOUND menu (see page 49)


D0108

FEATURES menu (see page 50)


D0109

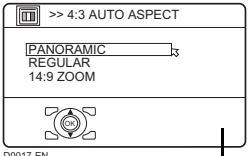
SET UP menu (see page 53)


D0224

DTV menu (see page 27)

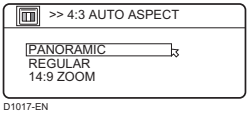
- The menu will disappear after about one minute if no operation is performed.

The menu guide area can be made to appear and disappear for some menus.
While the menu is displayed, press the ⓘ button to change between the guide area being displayed and not displayed.



D0017-EN

Guide area

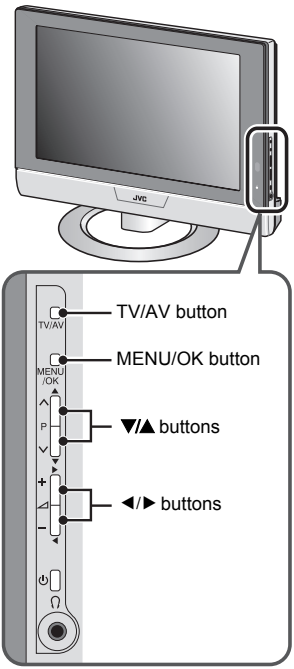


D1017-EN

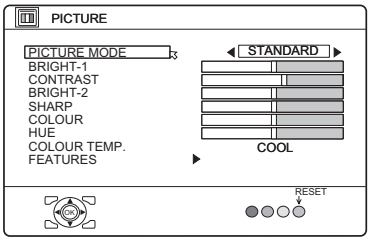
- The guide area for some menus will still be displayed even if the ⓘ button is pressed. This is not a fault.

Operation with the buttons on the TV

You can also operate the menus using the buttons on the front panel of the TV.



PICTURE menu



D0014-EN

- While the PICTURE menu is displayed, pressing the blue button will set the BRIGHT-1, CONTRAST, BRIGHT-2, SHARP, COLOUR, HUE settings to their default settings.
- When watching the picture from EXT-1 to EXT-4 or the PC, picture effect settings can be memorised for each external input by setting the picture effects in the PICTURE menu.
  The following items in the PICTURE menu are memorised.
  PICTURE MODE
  BRIGHT-1
  CONTRAST
  BRIGHT-2
  SHARP
  COLOUR
  HUE
  COLOUR TEMP.
  DIGITAL VNR
  COLOUR SYSTEM
  The last setting made for each item is memorised.

PICTURE MODE

You can choose one of three PICTURE MODEs to adjust the picture settings automatically.

BRIGHT:
Heightens contrast and sharpness.

STANDARD:
Standardises picture adjustment.

SOFT:
Softens contrast and sharpness.

BRIGHT-1

You can adjust the back light.
◀ : darker
▶ : brighter

CONTRAST

You can adjust the picture contrast.
◀ : lower
▶ : higher

BRIGHT-2

You can adjust the picture brightness.
◀ : darker
▶ : brighter

SHARP

You can adjust the picture sharpness.
◀ : softer
▶ : sharper

COLOUR

You can adjust the picture colour.
◀ : lighter
▶ : deeper

HUE

You can adjust the picture tint.
◀ : reddish
▶ : greenish

- You can change the HUE setting (picture hue) when the colour system is NTSC 3.58, or NTSC 4.43.

COLOUR TEMP.

You can select one of three COLOUR TEMP. modes (three tones of white) to adjust the white balance of the picture. Since white is the colour which is used as a reference for all the other colours, changing the COLOUR TEMP. mode affects the appearance of all the other colours on the screen.

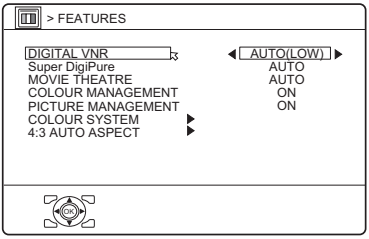
COOL:
A bluish white. Using this mode when watching bright pictures allows you to enjoy a more vivid and bright picture.

NORMAL:
The normal white colour.

WARM:
A reddish white. Using this mode when watching films allows you to enjoy colours that are characteristic of films.

FEATURES

Choose FEATURES and press the **OK** or ► button to display the sub-menu.



D1015-EN

■ DIGITAL VNR

The DIGITAL VNR function cuts down the amount of 'noise' ('snow' or interference) in the original picture.
You can choose from the three DIGITAL VNR function settings of AUTO, MIN and MAX.

AUTO(LOW)/AUTO(HIGH):
The TV will automatically adjust the level of the DIGITAL VNR effect to match the amount of noise in the picture, giving you the best possible picture.

- If you set the DIGITAL VNR effect too high it can make the picture less sharp. It is recommended you use the AUTO(LOW) setting if you can. If you set the DIGITAL VNR function to AUTO(LOW) but still notice some noise, change the setting from AUTO(LOW) to AUTO(HIGH).

MIN:
The level of the DIGITAL VNR effect is set to the minimum. If you set the DIGITAL VNR function to AUTO(LOW) but feel that the sharpness of the original picture has not been reproduced fully, change the setting from AUTO(LOW) to MIN.

- The MIN setting is not suitable for low-quality pictures which contain a lot of noise.

MAX:
The level of the DIGITAL VNR effect is set to the maximum. If you set the DIGITAL VNR function to AUTO(HIGH) but still notice some noise, change the setting from AUTO(HIGH) to MAX.

- The MAX setting is not suitable for high-quality pictures which contain very little noise.

■ Super DigiPure

The Super DigiPure function uses the latest in digital technology to give you a natural-looking picture. The Super DigiPure function includes the following two functions.

DigiPure function:
This function helps to create a natural-looking picture by eliminating unnecessary edges from high-contrast and crisp images. For images with low-contrast, edges are added to produce a sharper, more detailed picture.
You can choose from the three DigiPure function settings of AUTO, MIN and MAX.

- If you set the DigiPure effect too high on a low-quality picture that contains a lot of noise, this may actually make the noise worse. We recommend you use the AUTO setting if you can.

Picture motion compensation function:
This function displays fast-moving pictures (for example, the players or ball in a football game) more smoothly and naturally on the screen.

- The effect level of the picture motion compensation function cannot be changed. The effect level is the same no matter which of the AUTO, MIN or MAX settings is used.

AUTO:
The TV will automatically adjust the level of the DigiPure effect to match the amount of noise in the picture, giving the best possible picture.

MIN:
The level of DigiPure effect is set to the minimum. When you set the Super DigiPure function to AUTO and notice some noise, change the setting from AUTO to MIN.

- The MIN setting is not suitable for high-quality pictures which contain very little noise.

MAX:
The level of DigiPure effect is set to the maximum. If you set the Super DigiPure function to AUTO but feel that the original picture quality has not been reproduced fully, change the setting from AUTO to MAX.

- The MAX setting is not suitable for low-quality pictures which contain a lot of noise.

OFF:
The Super DigiPure function is turned off.

■ MOVIE THEATRE

The MOVIE THEATRE function displays a cinema film picture more smoothly and naturally on the screen.

AUTO:
The television automatically recognizes the type of signal and turns the function on and off.

ON:
This function is turned on.

OFF:
This function is turned off.

■ COLOUR MANAGEMENT

This TV supports the COLOUR MANAGEMENT function to ensure dull colours are compensated to produce natural hues.
The COLOUR MANAGEMENT function is on by default.

ON:
COLOUR MANAGEMENT function is turned on.

OFF:
COLOUR MANAGEMENT function is turned off.

- Set this function to ON under normal conditions.

■ PICTURE MANAGEMENT

The PICTURE MANAGEMENT function makes it easier to see the dark areas when a picture has many dark areas, and makes it easier to see the bright areas when a picture has many bright areas.
Normally use with this function on.

ON:
PICTURE MANAGEMENT function is turned on.

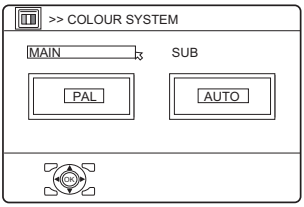
OFF:
PICTURE MANAGEMENT function is turned off.

■ COLOUR SYSTEM

The colour system is chosen automatically. However, if the picture is not clear or no colour appears, choose the colour system manually.

1 Choose COLOUR SYSTEM. Then press the OK or ▶ button

The sub-menu of the COLOUR SYSTEM function appears.



D0016-EN

2 Press the ◀/▶ buttons to choose MAIN or SUB

MAIN:
You can change the colour system of the main-picture.

SUB:
You can change the colour system of the sub-picture.

- Choose MAIN when a sub-picture is not displayed.

3 Press the ▼/▲ buttons to choose the appropriate colour system. Then press the OK button

PAL:
PAL system

SECAM:
SECAM system

NTSC 3.58:
NTSC 3.58 MHz system

NTSC 4.43:
NTSC 4.43 MHz system

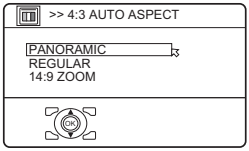
AUTO:
This function detects a colour system from the input signal. You can only use this when you are viewing a picture from programme number PR 0 (AV), or an EXT terminal.

- The AUTO function may not function properly if you have poor signal quality. If the picture is abnormal in the AUTO function, choose another colour system manually.
- When in the Programme numbers PR 0 (AV) to PR 99, you cannot choose NTSC 3.58 or NTSC 4.43.
  SECAM cannot be chosen when the COUNTRY setting is UNITED KINGDOM.
- COLOUR SYSTEM cannot be chosen when you are watching the Digital terrestrial broadcasting (DVB-T), the EXT-4 picture or PC picture.

■ 4:3 AUTO ASPECT

You can choose one of three ZOOM modes, REGULAR, PANORAMIC or 14:9 ZOOM, as the ZOOM mode for the normal picture (4:3 aspect ratio).

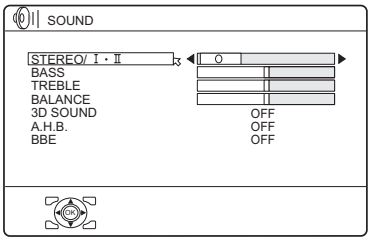
1 Choose 4:3 AUTO ASPECT then press the OK button



D0017-EN

2 Press the ▼/▲ buttons to choose a ZOOM mode

SOUND menu



D0019-EN

- When the headphones are connected, only "STEREO / I • II" can be used.
- STEREO / I • II cannot be chosen when watching Digital terrestrial broadcasting (DVB-T).

STEREO / I • II

When you are viewing a bilingual broadcast programme, you can choose the sound from Bilingual I (Sub I) or Bilingual II (Sub II). If you have poor reception on a stereo broadcast, you can change from stereo to mono sound so that you can hear the broadcast more clearly and easily.

: Stereo sound

: mono sound

I : Bilingual I (sub I)

II : Bilingual II (sub II)

- The sound mode you can choose differs depending on the TV programme.
- This function does not work in the EXT modes.

BASS

You can adjust the low tone of the sound.
◀ : weaker
▶ : strong

TREBLE

You can adjust the high tone of the sound.
◀ : weaker
▶ : strong

BALANCE

You can adjust the volume balance between the left and right speaker.
◀ : turn the left speaker's volume level up.
▶ : turn the right speaker's volume level up.

3D SOUND

You can enjoy Surround sound with a "live" effect by using the 3D SOUND function.

- You can choose a 3D SOUND mode from HIGH, LOW, MONO and OFF modes. For details, see "3D SOUND function" on page 21.
- You can also operate the 3D SOUND function with the **3D** button. For details, see "3D SOUND function" on page 21.

A.H.B. (Active Hyper Bass)

Used when you want to emphasise the bass sound.

ON:
This function is turned on.

OFF:
This function is turned off.

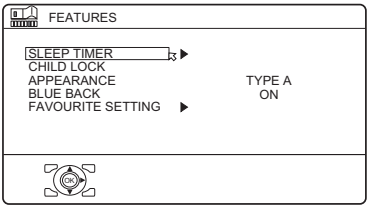
BBE

BBE function restores clarity and presence for better speech intelligibility and musical realism.

ON:
This function is turned on.

OFF:
This function is turned off.

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D0023-EN

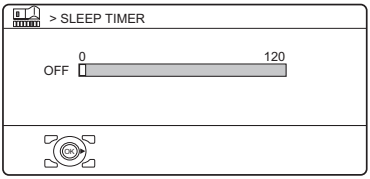
- CHILD LOCK, APPEARANCE, BLUE BACK, and FAVOURITE SETTING cannot be chosen when watching Digital terrestrial broadcasting (DVB-T).

SLEEP TIMER

You can set the TV to automatically turn off after a set period of time.

1 Choose SLEEP TIMER. Then press the OK or ▶ button

A Sub-menu of the SLEEP TIMER function appears.



D0024-EN

2 Press the ◀/▶ buttons to set the period of time. Then press the OK button

You can set the period of time for up to 120 minutes (2 hours) in 10 minute steps.

- One minute before the SLEEP TIMER function turns off the TV, "GOOD NIGHT!" appears.
- The SLEEP TIMER function cannot be used to turn off the TV's main power.
- When the SLEEP TIMER function is on, you can display the sub-menu of the SLEEP TIMER function again to confirm or change the remaining period of time of the SLEEP TIMER function. Press the OK button to leave the menu after confirming or changing the remaining time.

To cancel the SLEEP TIMER function:

Press the ◀ button to set the period of time to "OFF".

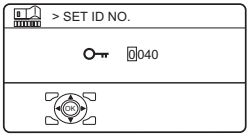
CHILD LOCK

When there is a TV channel you do not want your children to watch, you can use the CHILD LOCK function to lock out the TV channel. Even when a child chooses a programme number (PR) for a locked TV channel the screen will change to blue and display 🔒 (CHILD LOCK) so the TV channel cannot be viewed. Unless you enter a pre-set ID number by a special operation, the lock cannot be released and the child cannot view the TV channel.

■ To set the CHILD LOCK function

1 Choose CHILD LOCK, then press the 0 button

"SET ID NO." (ID number setting screen) appears.



D0025-EN

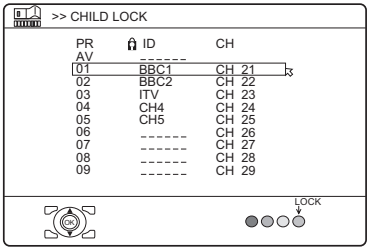
2 Set the ID number to your liking

1 Press the ▼/▲ buttons to choose a number.

2 Press the ◀/▶ buttons to move the cursor.

3 Press the OK button

The Sub-menu of CHILD LOCK appears.



D0026-EK

4 Press the ▼/▲ buttons to choose a TV channel

Every time you press the ▼/▲ buttons, the Programme number (PR) changes, and the picture of the TV channel registered in the Programme number (PR) is displayed on the screen.

5 Press the blue button and set the CHILD LOCK function. Then press the OK button

🔒 (CHILD LOCK) appears and the TV channel is locked.

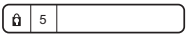
To reset the CHILD LOCK function:
Press the blue button again.
🔒 (CHILD LOCK) disappears.

To disable easy resetting of the CHILD LOCK function, the menu disappears if you choose the CHILD LOCK function and press the **OK** button.

■ To view a locked TV channel

1 Choose a programme number (PR) of a locked TV channel with the number buttons or PR LIST

The screen changes to blue and the 🔒 (CHILD LOCK) appears. You cannot view the TV channel.



D0027-EN

2 Press the ⓘ (Information) button to display "ID NO." (ID No. input screen)



D0028-EN

3 Press the number buttons to enter the ID number

The lock is temporarily released so you can view the TV channel.

If you have forgotten the ID number:
Perform step 1 of "To set the CHILD LOCK function". After confirming the ID number, press the **TV/DTV** button to exit the menu.

- Even if you reset the lock temporarily, it does not mean that the CHILD LOCK function set for the TV channel is cancelled. The next time anyone tries to view the TV channel, it will be locked again.
- When you want to cancel the CHILD LOCK function, you must perform the operation "To set the CHILD LOCK function" again.
- To stop it being easy to choose the programme number (PR) of a locked TV channel, the programme number (PR) has been set so that it cannot be chosen with the ▼/▲ buttons or the buttons of the TV.
- To stop it being easy to reset the lock, "ID NO." (ID No. input screen) is set so that it cannot appear unless you press the ⓘ (Information) button.

APPEARANCE

Press the ◀/▶ button and choose the format in which the channel number is displayed from the four types: TYPE A, TYPE B, TYPE C, and TYPE D.

- Set to TYPE D when shipped from factory. TYPE D sets all screens to semitransparent.
  The menu screens are not semitransparent when set to a type other than TYPE D.
- The DTV menu is always semitransparent.

BLUE BACK

You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent, or when there is no input from an external device.

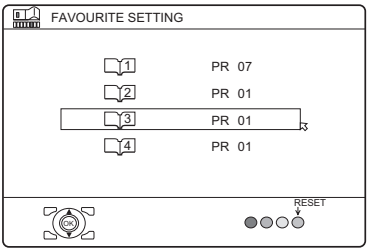
ON:
This function is turned on.

OFF:
This function is turned off.

FAVOURITE SETTING

Choose when deleting the analogue favorite channels registered in buttons 1 to 4.

1 Choose FAVOURITE SETTING, then press the OK or ▶ button
The FAVOURITE SETTING menu appears.



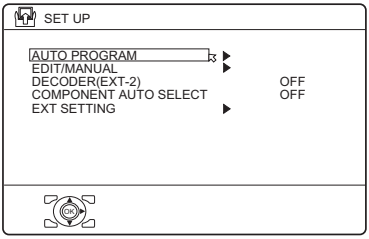
D0112-EN

2 Press the ▼/▲ buttons and chose the favourite channel that you want to delete

3 Press the blue button
The chosen favourite channel and set contents are deleted.

- For details of the favourite channels, see “Favourite channel function” on page 38.

SET UP menu



D0029-EN

- AUTO PROGRAM, EDIT/MANUAL, and DECODER (EXT-2) cannot be chosen when watching Digital terrestrial broadcasting (DVB-T).

AUTO PROGRAM (Analogue)

You can again perform the AUTO PROGRAM function TV channel automatic registration which was performed in the "Initial settings" (page 10).
To receive SKY 1 you need a satellite tuner. You must have the satellite tuner set to SKY 1 before starting the AUTO PROGRAM function.

1 Choose AUTO PROGRAM, then press the OK or ▶ button

The COUNTRY menu appears.

2 Perform any extra operations you need to perform in step 5 (operations after AUTO PROGRAM ends) and step 6 of "Initial settings"

EDIT/MANUAL (Analogue)

The EDIT/MANUAL functions are divided into two types:

- editing the current programme numbers (PR) (EDIT functions); and
- manually storing a TV channel you want to view on a particular programme number (PR) (MANUAL function).

Here are the details about these functions:

MOVE:
This function changes the programme number (PR) of a TV channel.

ID:
This function registers a channel name (ID) to a TV channel.

INSERT:
This function adds a new TV channel in the current programme numbers (PR) list by using the CH number.

- You cannot use the INSERT function if you do not know the channel number of a TV channel. Use the MANUAL function to register a TV channel in the programme number (PR).

DELETE:
This function deletes a TV channel you do not want to list.

MANUAL:
This function manually stores a new TV channel in a programme number (PR).

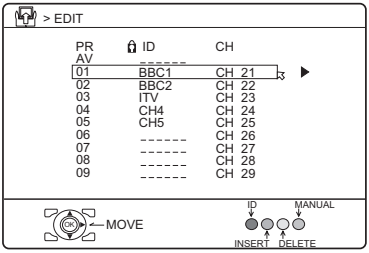
Caution

- Using the MOVE, DELETE or INSERT functions rewrites the current programme numbers (PR) list. Therefore, the programme numbers (PR) of some of the TV channels will change.
- Using the MANUAL function for a TV channel for which the CHILD LOCK function has been set cancels the CHILD LOCK function for that channel.
- Using the MANUAL function for a TV channel for which the DECODER (EXT-2) function has been set to ON returns the setting of the DECODER (EXT-2) function for that channel to OFF.
- When a TV channel has already been registered in PR 99, using the INSERT function deletes that TV channel.

■ Basic operation

1 Choose EDIT/MANUAL, then press the OK or ▶ button

The EDIT menu appears.

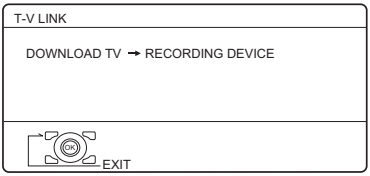


D0038-EK

2 Follow the description for the function you want to use

3 Press the OK button to complete the settings

The T-V LINK menu appears.



D0005-EN

If you do not have a T-V LINK compatible VCR connected:
Press the **TV/DTV** button to exit the T-V LINK menu.
The T-V LINK menu disappears.

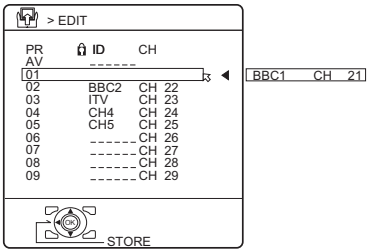
If you have a T-V LINK compatible VCR connected to the EXT-2 terminal:
Follow "Downloading the data to VCR" on page 12 to transmit the programme number (PR) data.

- For programme number PR 0, "AV" appears in the programme numbers (PR) list.
- An EXT terminal number does not appear in the programme numbers (PR) list.

■ MOVE

1 Press the ▼/▲ buttons to choose a TV channel

2 Press the ▶ button to start the MOVE function



D0030-EK

3 Press the ▼/▲ buttons to choose a new programme number (PR)

To cancel the MOVE function:
Press the **BACK** button.

4 Press the ◀ button to change the programme number (PR) of a TV channel to a new programme number (PR)

■ DELETE

1 Press the ▼/▲ buttons to choose a TV channel

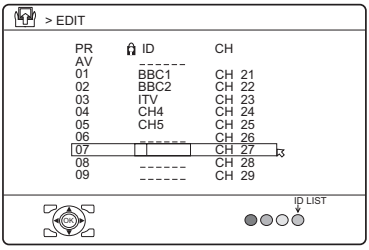
2 Press the yellow button to delete the TV channel

The TV channel is deleted from the programme numbers (PR) list.

■ ID

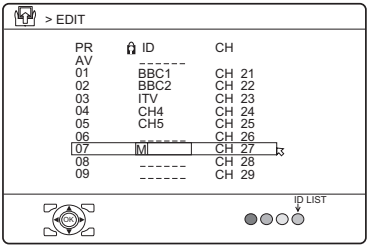
1 Press the ▼/▲ buttons to choose a TV channel

2 Press the red button to start the ID function



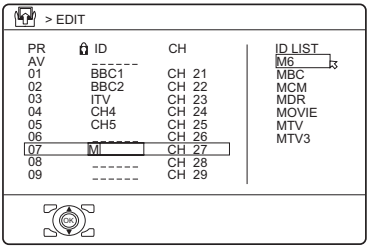
D0031-EK

3 Press the ▼/▲ buttons to choose the first character of a channel name (ID) you want to give the TV channel



D0032-EK

4 Press the blue button to display the ID LIST (channel name list)



D0033-EK

5 Press the ▼/▲ buttons to choose the channel name (ID)

To cancel the ID function:
Press the **BACK** button.

6 Press the **OK** button to give a channel name (ID) to a TV channel

- You can give your own unique channel name (ID) to the TV channel. When you have finished step 3, do not go to step 4. Press the ◀/▶ buttons to move the cursor, and press the ▼/▲ buttons to choose each character of the channel name (ID). Then press the **OK** button to register the channel name (ID) to the TV channel.

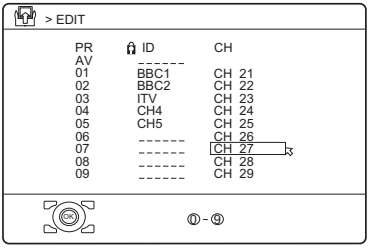
Before performing INSERT or MANUAL operation

- A CH/CC number unique to this TV and corresponding to the Channel number of a TV channel is required. Find the corresponding CH/CC number from a table “CH/CC NUMBER” on page 57 based on the Channel number of the TV channel.

■ INSERT

1 Press the ▼/▲ buttons to choose a programme number (PR) for which you will register a new TV channel

2 Press the green button and start the INSERT function



D0034-EN

To cancel the INSERT function:
Press the **BACK** button.

3 When the COUNTRY setting is UNITED KINGDOM:
Press the number buttons to enter the remaining CH number

- You cannot enter CC numbers.

When the COUNTRY setting is IRELAND:
Press the ▼/▲ buttons to choose "CH" or "CC", then enter the remaining CH or CC number

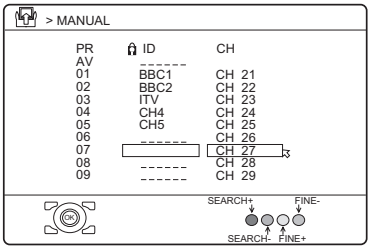
The TV shifts to registration mode. When the registration is completed, the picture of the TV channel appears on the screen.

- The CH/CC number is a number given to each broadcast frequency that carries a TV channel. If the TV cannot detect the TV channel corresponding to the broadcast frequency indicated by the CH/CC number, a "no-signal" picture appears.

■ MANUAL

1 Press the ▼/▲ buttons to choose a programme number (PR) for a new TV channel

2 Press the blue button to activate the MANUAL function



D0035-EK

To cancel the MANUAL function:
Press the **BACK** button.

3 When the COUNTRY setting is UNITED KINGDOM:
Continue to step 4

When the COUNTRY setting is IRELAND:
Press the ▶ button to choose the SYSTEM (broadcasting system) for a TV channel you want to register

If you do not know the correct broadcasting system, set the SYSTEM to "I". If "I" is not correct, you will not hear the sound normally when the TV detects a TV channel. In this case, retry to set the SYSTEM correctly so that no problem arises.

4 Press the green or red button to search for a TV channel

Scanning stops when the TV finds a TV channel. Then the TV channel is displayed.

5 Press the green or red button repeatedly until the TV channel you want appears

If the TV channel reception is poor:
Press the blue or yellow button to fine-tune the TV channel.

6 Press the OK button and register the TV channel to a Programme number (PR)

The normal EDIT menu is resumed.

■ CH/CC NUMBER

- When you want to use the INSERT function on page 56, find the CH/CC number corresponding to the channel number of the TV channel from this table. If you want to know a particular TV channel's channel menu, look in TV listings magazines or contact the broadcaster.
- When the COUNTRY setting is UNITED KINGDOM, the CC number channels and the channels from CH 02 to CH 12 cannot be received.

CH	Channel
CH 02	E2, IR A
CH 03	E3, IR B
CH 04	E4, IR C
CH 05	E5, IR D
CH 06	E6, IR E
CH 07	E7, IR F
CH 08	E8, IR G
CH 09	E9
CH 10	E10, IR H
CH 11	E11, IR J
CH 12	E12
CH 21	E21
CH 22	E22
CH 23	E23
CH 24	E24
CH 25	E25
CH 26	E26
CH 27	E27
CH 28	E28
CH 29	E29
CH 30	E30
CH 31	E31
CH 32	E32
CH 33	E33
CH 34	E34
CH 35	E35
CH 36	E36
CH 37	E37
CH 38	E38
CH 39	E39

CH	Channel
CH 40	E40
CH 41	E41
CH 42	E42
CH 43	E43
CH 44	E44
CH 45	E45
CH 46	E46
CH 47	E47
CH 48	E48
CH 49	E49
CH 50	E50
CH 51	E51
CH 52	E52
CH 53	E53
CH 54	E54
CH 55	E55
CH 56	E56
CH 57	E57
CH 58	E58
CH 59	E59
CH 60	E60
CH 61	E61
CH 62	E62
CH 63	E63
CH 64	E64
CH 65	E65
CH 66	E66
CH 67	E67
CH 68	E68
CH 69	E69

CC	Channel
CC 01	S1
CC 02	S2
CC 03	S3
CC 04	S4
CC 05	S5
CC 06	S6
CC 07	S7
CC 08	S8
CC 09	S9
CC 10	S10
CC 11	S11
CC 12	S12
CC 13	S13
CC 14	S14
CC 15	S15
CC 16	S16
CC 17	S17
CC 18	S18
CC 19	S19
CC 20	S20
CC 21	S21
CC 22	S22
CC 23	S23
CC 24	S24
CC 25	S25
CC 26	S26
CC 27	S27
CC 28	S28
CC 29	S29
CC 30	S30

CC	Channel
CC 31	S31
CC 32	S32
CC 33	S33
CC 34	S34
CC 35	S35
CC 36	S36
CC 37	S37
CC 38	S38
CC 39	S39
CC 40	S40
CC 41	S41
CC 75	X
CC 76	Y
CC 77	Z
CC 78	Z+1
CC 79	Z+2

DECODER (EXT-2)

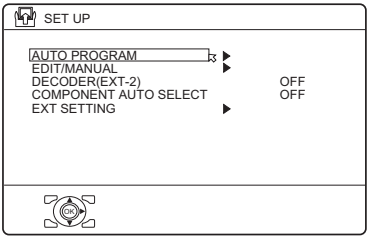
If you have a decoder connected to a T-V LINK compatible VCR, which in turn is connected to the EXT-2 terminal, use the DECODER (EXT-2) function to unscramble the scrambled TV channels.

1 Turn on the decoder power

2 Display the scrambled TV channel on the TV

Even if the decoder is working, a scrambled picture appears.

3 Display the SET UP menu and choose DECODER (EXT-2)



D0029-EN

4 Press the ◀/▶ buttons to choose ON

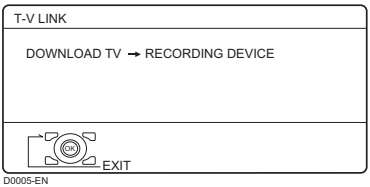
An unscrambled picture appears.

To cancel the DECODER (EXT-2) function:

Press the ◀/▶ buttons to choose OFF.

5 Press the OK button to complete the setting

The T-V LINK menu appears.



D0005-EN

You can send the programme numbers data to a VCR with the T-V LINK function.

6 Turn on the VCR, and then press the OK button to transmit the data to recording device

The T-V LINK menu disappears once the data transmission ends.

If the DECODER (EXT-2) function has been set to "ON" but the TV channel cannot be unscrambled, check the following:

- Has the decoder been connected to the VCR properly according to the VCR and decoder instruction manuals?
- Has the decoder power been turned on?
- Can the TV channel be unscrambled with a decoder?
- Do you need to change the recording device settings in order to connect the decoder? Confirm that the VCR is set properly by rechecking the VCR instruction manual.

COMPONENT AUTO SELECT

When a external device that can output a component signal is connected to the EXT-4 component terminal and the connected device is played back, the TV input is automatically changed to EXT-4.

ON:

When the device connected to EXT-4 is played back, the TV input is automatically changed to EXT-4.

OFF:

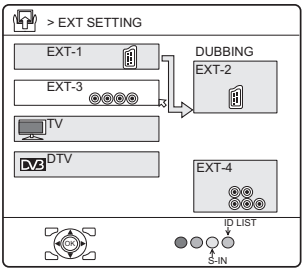
Even when the device connected to EXT-4 is played back, the TV input is not changed. (Set to OFF when shipped from the factory.)

- This function automatically changes the TV input to EXT-4 when the TV detects a component input signal from the device connected to the EXT-4.
- When set to ON, the TV input may be automatically changed to EXT-4 just by an operation such as turning the power on, removing a disc, or another operation with a device (such as a DVD player).
- The COMPONENT AUTO SELECT function does not work when you are watching Digital terrestrial broadcasting (DVB-T) or a PC picture.

EXT SETTING

1 Choose EXT SETTING, then press the OK or ▶ button

The EXT SETTING menu appears.



2 Follow the instructions for the function you want to use and operate the function

S-IN:

You can enjoy the high-quality picture of the 2 S-VIDEO signal (Y/C signal).

ID LIST:

You can have a name for each of the devices connected for each EXT terminal.

DUBBING:

You can choose a signal source to be output from an EXT-2 terminal.

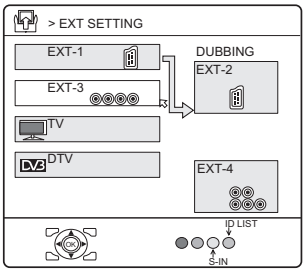
■ S-IN (S-VIDEO input)

You can connect a device (such as an S-VHS VCR) to enjoy the high-quality picture of the S-VIDEO signal (Y/C signal).

Preparation:

- First read the device's instruction manual and "Additional preparation" on page 63 to connect the device to the TV properly. Second, follow the device's instruction manual to set the device so that it sends an S-VIDEO signal (Y/C signal) to the TV.
- Do not set S-IN (S-VIDEO input) to an EXT terminal connected to a device which cannot output an S-VIDEO (Y/C signal).

1 Press the ◀/▶ or ▼/▲ buttons to choose an EXT terminal



2 Press the yellow button and set the S-IN (S-VIDEO input). Then press the OK button

An S-IN (S-VIDEO input) mark is displayed. You can view an S-VIDEO signal (Y/C signal) instead of the regular video signal (composite signal).

To cancel the S-IN (S-VIDEO input) setting:

Press the yellow button and turn off S-IN (S-VIDEO input) mark. The regular video signal (composite signal) pictures are resumed.

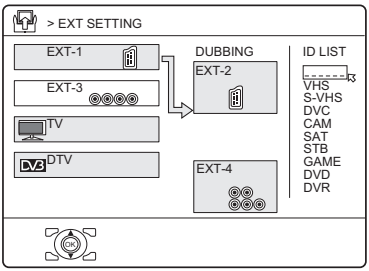
- Setting S-IN (S-VIDEO input) changes the head character from "E" to "S". When an EXT terminal receives a normal video signal, "E1", "E2" or "E3" appears on the display. This changes to "S1", "S2" or "S3" when it receives an S-VIDEO signal.
- Even a device which can output an S-VIDEO signal (Y/C signal) may output a regular video signal (composite signal) depending on the device setting. If a picture cannot appear because the S-IN (S-VIDEO input) setting has been made, read the device instruction manual carefully again to check for the device settings.

■ ID LIST

You can store a name for each of the devices connected to each EXT terminal. Giving a name to an EXT terminal makes the EXT terminal number appear on the screen, together with its name.

1 Press the ◀/▶ or ▼/▲ buttons to choose an EXT terminal

2 Press the blue button to display the name list (ID LIST)



3 Press the ▼/▲ buttons to choose a name. Then press the OK button

The ID LIST disappears and the name is assigned to the EXT terminal.

- You cannot assign an EXT terminal name not found in the name list (ID LIST).

To erase a name assigned to the EXT terminal:

Choose a blank space.

4 Press the OK button to complete the setting

■ DUBBING

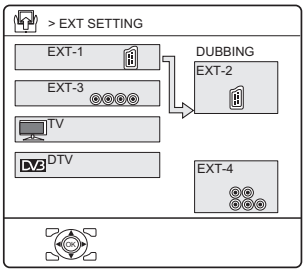
You can choose a signal source to be output from the EXT-2 terminal.

You can do this with the output signals of the devices connected to other EXT terminals, or with the picture and sound from a TV channel you are currently viewing.

Caution:

Every time you dub, check this DUBBING setting beforehand. This setting may change automatically when "Timers (DTV Timer Recording)" or "Direct Rec" of the T-V LINK function is used.

1 Press the ◀/▶ buttons to choose the arrow from the menu



2 Press the ▼/▲ buttons to choose an EXT terminal or TV. Then press the OK button

The arrow in the menu represents a signal flow. The left side of the arrow shows a signal source output from the EXT-2 terminal.

EXT-1/EXT-3:

The output signal of the device connected to an EXT terminal passes through the TV and is output from the EXT-2 terminal.

TV:

The picture and sound of the Analogue terrestrial broadcasting TV channel you are currently viewing are output from the EXT-2 terminal.

DTV:
The picture and sound of the Digital terrestrial broadcasting (DVB-T) TV channel you are currently viewing are output from the EXT-2 terminal.

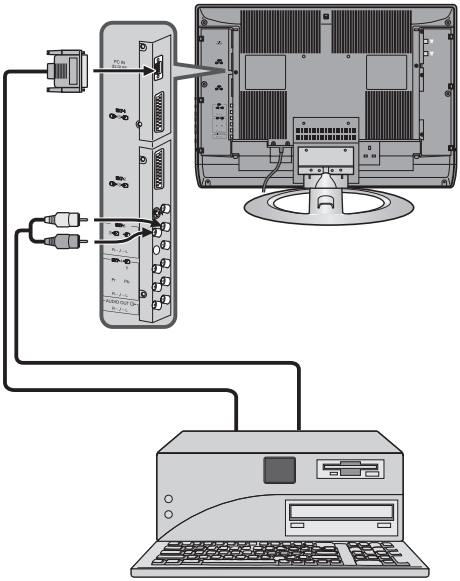
- During dubbing, you cannot turn off the TV. Turning off the TV also turns off the output from the EXT-2 terminal.
- When you choose an EXT terminal as an output, you can view a TV programme or a picture from the other EXT terminal while dubbing the picture from a device connected to the EXT terminal onto a VCR connected to the EXT-2 terminal.
- The RGB signals from TV games cannot be output. Teletext programmes cannot be output.

Displaying a computer screen

This TV can be used as a computer screen.

Connecting to the computer

Use a D-SUB cable to connect the TV's PC IN terminal to the computer's analogue RGB output terminal.
If you want to listen to the sound from the computer, use an audio cable to connect the EXT-3 L/R terminal to the computer's sound output terminal.
When the sound from the computer is mono, connect to the EXT-3 L terminal.



- Refer to the computer manual for a detailed explanation of the connections at the computer side.
- Ensure that the connectors are facing the correct way when connecting.
- After connecting the D-SUB cable, tighten the two screws to fix the connector in place.

Watching images from a computer

After starting the computer, press the AV or P ∨/∧ buttons to choose "PC"

"PC" is after EXT-4.
You can listen to the sound when the sound from the computer is connected to the EXT-3 L/R terminal.

- When the sound from the computer is connected to EXT-3, by choosing external input EXT-3 the sound from the computer can be listened to, but the images from the computer cannot be seen.

Table of signals for each type of computer

Resolution	Vertical frequency (Hz)	Horizontal frequency (kHz)
640 × 480 (VGA)	60.0	31.5
1024 × 768 (XGA)	60.0	42.0

* Only the above formats are supported.
* Even with the above formats and at 60 Hz, some problems may be experienced depending on the quality of the synchronous signal. (Depending on the quality, some pictures may not be displayed properly.)
* Apple Macintosh* computers are not supported.

When a picture is not displayed

Check the computer's refresh rate and set it to 60 Hz. Refer to the computer's instruction manual.
Computers which cannot have their refresh rate set to 60 Hz cannot be used with this unit.

* Apple Macintosh is a registered trademark of Apple Computer, Inc.

Additional preparation

Connecting external equipment

Connect the equipment to the TV, making the correct rear panel and front panel connections.

Before connecting anything:

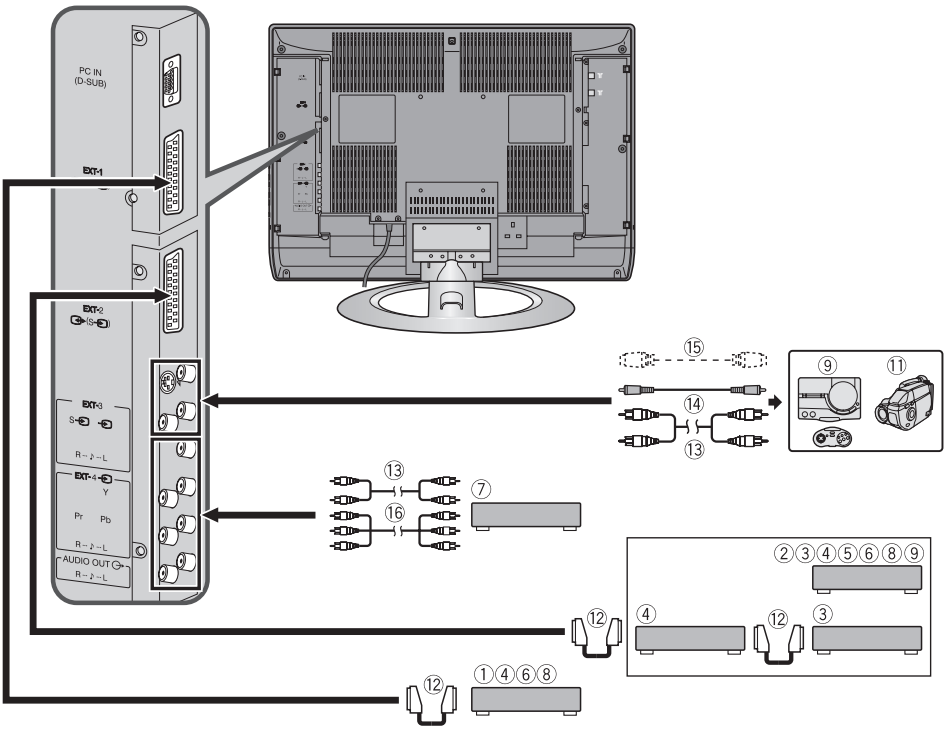
- Read the manuals that came with the equipment.
  Depending on the equipment, the connection method may be different from the diagram. Also, the equipment settings may need to change depending on the connection method.
- Turn off all the equipment including the TV.
- The "Specifications" on the back cover give the details of the EXT terminals. If you are connecting equipment not listed in the following connection diagram, see the table to choose the best EXT terminal.
- Connecting cables are not supplied.
- When a device that can output component signals is connected to the EXT-4 component terminal, the TV input can be automatically changed to EXT-4 by just turning the power supply of the connected device on. For details, see "COMPONENT AUTO SELECT" in the SET UP menu on page 58.

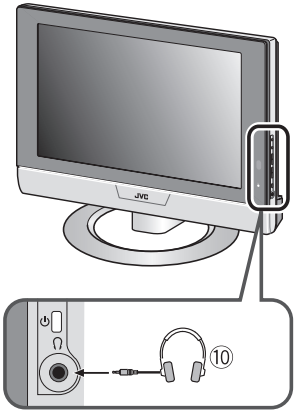
■ Connecting the PC

For details, see "Connecting to the computer" on page 62.

① VCR (composite signal)
② VCR (composite signal/S-VIDEO signal)
③ T-V LINK compatible VCR (composite signal/S-VIDEO signal)
④ Decoder
⑤ DVD player (composite signal/S-VIDEO signal)
⑥ DVD player (composite signal/RGB signal)
⑦ DVD player (component video signals; Y/Pb/Pr)
⑧ TV game (composite signal/RGB signal)
⑨ TV game (composite signal/S-VIDEO signal)
⑩ Headphones
⑪ Camcorder (composite signal/S-VIDEO signal)
⑫ SCART cable
⑬ Audio cable
⑭ Video cable
⑮ S-VIDEO cable
⑯ Component cable

without terminal covers





■ Equipment which can output the S-VIDEO signal (Y/C signal)

Connect the equipment to an EXT terminal (but not the EXT-4 terminal).

You can choose between an S-VIDEO signal (Y/C signal) and a regular video signal (composite signal). For details of how to operate the equipment, see “S-IN (S-VIDEO input)” on page 59.

■ T-V LINK compatible VCR

Be sure to connect the T-V LINK compatible VCR to the EXT-2 terminal. If not, the T-V LINK function will not work properly.

- When connecting a T-V LINK compatible VCR to the EXT-2 terminal, be sure to connect the decoder to the VCR. If not, the T-V LINK function may not work properly.
- When you connect the decoder to the VCR, after you have stored TV channels in the programme numbers (PR) list, set the DECODER (EXT-2) function for the programme number (PR) to ON to unscramble a scrambled TV channel. For details, see “DECODER (EXT-2)” on page 58.

■ Connecting headphones

Connect the headphones with a stereo mini-jack (3.5 mm diameter) to the headphone jack socket.

- No sound comes from the TV speakers when the headphones are connected and only one screen is displayed.

■ Video or sound signal output from the EXT-2 terminal

You can change over the output of the video/sound signal from the EXT-2 terminal. This is useful when you want to dub the video/sound from another device onto the VCR connected to the EXT-2 terminal. For details on how to do this, see “DUBBING” on page 60.

- The signals from EXT-4 and PC IN terminal cannot be output from EXT-2.

■ TV output from the EXT-1 terminal

The video/sound signal of a Analogue terrestrial broadcasting channel you are viewing is always output from the EXT-1 terminal.

- Changing over a programme number (PR) also changes over the TV output from the EXT-1 terminal.
- The video/sound signal from an EXT terminal cannot be output.
- Teletext programmes cannot be output.

■ Connection when recording to VCR

- When recording an Analogue terrestrial broadcasting, connect to either terminal EXT-1 or EXT-2. If you connect to the EXT-2 terminal, make sure the “DUBBING” setting (see page 60) is set to “TV”.
- Choose the EXT-2 terminal to connect to a T-V LINK compatible VCR.
  When recording an Analogue terrestrial broadcasting, set the “DUBBING” setting (see page 60) to “TV”.
  When recording a Digital terrestrial broadcasting (DVB-T), set the “DUBBING” setting (see page 60) to “DTV”.

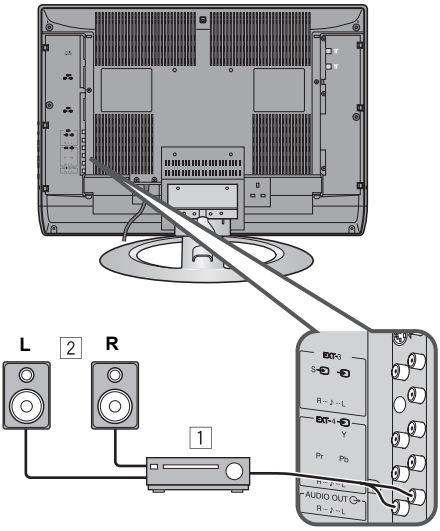
■ Connecting speakers/amplifier

While referring to the audio equipment connection diagram, connect the audio equipment you want to the TV.
You can use external front speakers to listen to the TV sound instead of the TV speakers.

Before connecting anything:

- Read the manuals provided with the amplifier and speakers.
- Turn the TV and amplifier off.
- Note that connecting cables are not supplied.

without terminal covers



1 Amplifier
2 External speakers (Magnetic-shielded type)

- The output from the AUDIO OUT terminal is not interrupted by headphone connection to the TV. You cannot cut the sound from the front speaker even if you connect a headphone to the TV.
- Adjust the volume of the external speakers with the amplifier.

Operating a JVC brand VCR or DVD player

These buttons will operate a JVC brand VCR or DVD player. Pressing a button that looks the same as the device's original remote control button has the same effect as the original remote control.

1 Set the VCR/TV/DVD Switch to the VCR or DVD position

VCR:
When you are operating the VCR, set the switch to the VCR position.

- You can turn the VCR on or off with the ⏻/I (standby) button.

DVD:
When you are operating the DVD player, set the switch to the DVD position.

- You can turn the DVD player on or off with the ⏻/I (standby) button.
- You can also press the **MENU** or **TOP MENU** button and display the DVD disc menu screen, and then operate by pressing the ◄/►/▼/▲ buttons.

2 Press the VCR/DVD Control Button to control your VCR or DVD player

- If your device is not made by JVC, these buttons will not work.
- Even if your device is made by JVC, some of these buttons may not work, depending on the device you are using.
- You can use the ∨/∧ buttons to choose a TV channel the VCR will receive, or choose the chapter the DVD player plays back.
- Some models of DVD player use the ∨/∧ buttons for both operating the fast forward/backward functions and for choosing the chapter. In this case, the ◄◄/►► buttons do not work.

You cannot turn the TV on or off when the VCR/TV/DVD switch is set to the VCR or DVD position.
When you turn the TV on or off, set the VCR/TV/DVD switch to the TV position.

Troubleshooting

Digital terrestrial broadcasting (DVB-T) service area
Although this TV can receive both Digital terrestrial broadcasting (DVB-T) and Analogue terrestrial broadcasting, depending on the area in which you live, you may not be able to receive Digital terrestrial broadcasting (DVB-T).
For details of the Digital terrestrial broadcasting (DVB-T) service area, refer to the FREEVIEW website etc.

If a problem arises while you are using the TV, please read this troubleshooting guide carefully before you ask to have the TV repaired. You may be able to fix it easily by yourself. For example, if the mains plug is disconnected from the mains outlet, or the TV aerial has problems, you may think there is a problem with the TV itself.

Important:

- This troubleshooting guide only covers problems whose causes are not easy to decide. If you have a question when you are operating a function, read the page(s) for that function carefully, not this troubleshooting guide.
- If you follow the advice in this troubleshooting guide without any success, unplug the mains plug and ask for your TV to be repaired. Do not attempt to repair the TV by yourself or to remove the rear cover of the TV.

■ If you cannot turn on the TV

- Is the mains plug connected to the mains outlet?
- Make sure you set the VCR/TV/DVD switch to the TV position. You cannot turn the TV on when the VCR/TV/DVD switch is set to the VCR or DVD position.

■ If you cannot turn off the TV

- Make sure you set the VCR/TV/DVD switch to the TV position. You cannot turn the TV off when the VCR/TV/DVD switch is set to the VCR or DVD position.

■ No picture or no sound

- Have you chosen a TV channel with very poor reception? If so, the BLUE BACK function will be activated: the entire screen becomes blue, and the sound is muted. If you still want to view the TV channel, follow the description “BLUE BACK” on page 52 to change the BLUE BACK function setting to OFF.
- If the SYSTEM setting for a TV channel is incorrect, it may prevent the sound from being issued. Follow the description “EDIT/MANUAL (Analogue)” on page 53 to use the MANUAL function to try to change the SYSTEM setting.

■ Poor picture

- If the Digital terrestrial broadcasting (DVB-T) picture is unnatural, press the TV/AV button and MENU/OK button at the same time. The power will turn off and then on again, after which the picture may appear natural again.
- If noise (snow) totally blocks out the picture, there may be a problem with the aerial or aerial cable. Check the following to try to solve the problem:
  - Have the TV and aerial been connected properly?
  - Has the aerial cable been damaged?
  - Is the aerial pointing in the right direction?
  - Is the aerial itself faulty?
- If the TV or aerial suffers interference from other equipment, stripes or noise may appear in the picture. Move any equipment such as an amplifier, personal computer, or a hair drier, that can cause interference away from your TV. Or try moving the TV. If the aerial suffers interference from a radio tower or high-voltage wire, please contact your local dealer.

- If the TV suffers interference from signals reflecting from mountains or buildings, double-pictures (ghosting) will occur. Try to change the aerial's direction or replace it with one with better directionality.
- Are your COLOUR SYSTEM settings correct? Follow the description "COLOUR SYSTEM" on page 48 to try to solve the trouble.
- Have the COLOUR and BRIGHT settings been adjusted properly? Follow the description "BRIGHT-2" and "COLOUR" on page 45 to try to adjust them properly.
- Videotaping teletext is not recommended because it may not record correctly.
- When viewing images from commercially available video software products, or videos from videotapes which have been recorded improperly, the top of the image may be distorted. This is due to the condition of the video signal. There is nothing wrong with the TV.
- Since this TV is designed to make full use of the resolution of the original video source, the motion may appear unnatural when the video source is input with 625p progressive-scanning component signals. If this occurs, change the output setting of the connected device to 625i interlace-scanning component signal output. See the instructions that came with the device for more information.

■ Poor sound

- Have you adjusted BASS or TREBLE properly? If not, follow the description "BASS" or "TREBLE" on page 49.
- When TV channel reception is poor, it can be hard to hear stereo or bilingual sound. In this case, follow the description "STEREO / I • II" on page 49 to hear the sound more easily by changing it to a mono sound.

■ If the TV does not respond to the remote control

- Have the batteries of the remote control worn out? Follow the description "Putting the batteries into the remote control" on page 10 and replace them with new batteries.
- Have you attempted to use the remote control from the sides or rear of the TV or from more than seven metres away from the TV? Use the remote control in front of your TV or from less than seven metres away.
- When you are viewing a teletext programme, you cannot operate the menus. Press the **TV/DTV** button to return to the ordinary TV programme, and then try operating the menus.
- If the TV suddenly stops responding, disconnect the power cord of the TV from the AC outlet. Connect them to the AC outlet again to turn on the TV. If the TV returns to a normal state, it is not a failure.

■ Other issues

- When the SLEEP TIMER function operates, the TV is automatically turned off. If the TV suddenly turns off, try to press the ⏻/I (standby) button to turn on the TV once again. If the TV goes back to normal, there is no problem.
- When the TV is receiving a wide-screen signal (WSS) or a signal from an external device affecting the screen size, the ZOOM mode automatically changes. When you want to resume the previous ZOOM mode, press the **ZOOM** button again.
- It takes a short period of time from the time an operation such as changing channels is performed until an image is displayed. This is not a fault. This is the time needed for the image to stabilise before it can be displayed.
- The TV may make a crackling sound due to a sudden change in temperature. The picture or sound may be normal. If you hear crackling sounds frequently while you are viewing the TV, there may be other causes. As a precaution, ask your service technician to inspect it.

- The top of the TV and the screen may become hot during use but this has no affect on the performance of the TV. Make sure that the ventilation holes are not blocked.
- When the picture is unstable, the screen may become white for a moment. This happens when the signal which drives the liquid crystal is missing. This is not a fault.
- When a still image has been displayed for a long period, a faint residual image may remain on the screen for a short time after the power has been turned off or when another image is displayed. This is not a fault and the image will eventually disappear.

Specifications

Model	LT-32D50BJ/LT-32D50SJ	
COUNTRY setting	When the COUNTRY setting is **UNITED KINGDOM**	When the COUNTRY setting is **IRELAND**
Broadcasting systems	CCIR, I	CCIR B/G, I, D/K, L
Colour systems	PAL • The EXT terminals also support the NTSC 3.58/4.43 MHz system.	PAL, SECAM • The EXT terminals also support the NTSC 3.58/4.43 MHz system.
Channels and frequencies	Analogue: E21-E69, Digital: 474 MHz - 850 MHz (channel 21 - 68)	IR A-J, E2-E12, E21-E69, S1-S41, X, Y, Z, Z+1, Z+2
Sound-multiplex systems	NICAM (I) system, Digital (DVB-T): MHEG 5 UK profile	NICAM (B/G, I, D/K, L) system, A2 (B/G, D/K) system
Teletext systems	FLOF (Fastext), WST (World Standard System)	FLOF (Fastext), TOP, WST (World Standard System)
Power requirements	110 - 240 V AC, 50/60 Hz	
Power consumption	170 W (Standby: 2.6 W)	
Screen size	Viewable area 80 cm (measured diagonally)	
Audio output	Rated Power output: 10 W + 10 W	
Speakers	6.6 cm round × 2	
EXT-1 terminal	Euroconnector (21-pin, SCART) • Video input, S-VIDEO (Y/C) input, Audio L/R inputs and RGB inputs are available. • TV broadcast outputs (Video and Audio L/R) are available.	
EXT-2 terminal	Euroconnector (21-pin, SCART) • Video input, S-VIDEO (Y/C) input, Audio L/R inputs and RGB inputs are available. • Video and Audio L/R outputs are available. • T-V LINK functions are available.	
EXT-3 terminal	RCA connectors × 3 S-VIDEO connector × 1 • Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available.	
EXT-4 terminal	RCA connectors × 5 • Component video (Y, Pb, Pr) input and Audio L/R inputs are available. • 625p, 525p, 1125i and 750p signals are available. 750p signal is only available for 60Hz. • Some DVD players can output 625p and 525p signals. • 1125i and 750p are new high-definition signals.	
AUDIO OUT terminal	RCA connectors × 2 • Audio L/R outputs are available. • Output level 0.5 Vrms.	
PC INPUT terminal	Analogue RGB D-SUB (15 pin) × 1 • PC signal is available. Refer to page 62 for details of the signals which can be input.	
Headphone jack	Stereo mini-jack (3.5 mm in diameter)	
Dimensions (W × H × D)	834.1 mm × 637 mm × 295 mm 834.1 mm × 567.7 mm × 107.5 mm (without stand)	
Weight	19.8 kg 17.3 kg (without stand)	
Accessories	Remote control unit × 1 (RM-C1813H) AA/R6 dry cell battery × 2	

We may change the design and specifications without notice.

Pictures displayed on the screen using this TV's ZOOM functions should not be shown for any commercial or demonstration purpose in public places (cafes, hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this would be an infringement of copyright.

Model	**LT-26D50BJ/LT-26D50SJ**	
COUNTRY setting	When the COUNTRY setting is **UNITED KINGDOM**	When the COUNTRY setting is **IRELAND**
Broadcasting systems	CCIR, I	CCIR B/G, I, D/K, L
Colour systems	PAL • The EXT terminals also support the NTSC 3.58/4.43 MHz system.	PAL, SECAM • The EXT terminals also support the NTSC 3.58/4.43 MHz system.
Channels and frequencies	Analogue: E21-E69, Digital: 474 MHz - 850 MHz (channel 21 - 68)	IR A-J, E2-E12, E21-E69, S1-S41, X, Y, Z, Z+1, Z+2
Sound-multiplex systems	NICAM (I) system, Digital (DVB-T): MHEG 5 UK profile	NICAM (B/G, I, D/K, L) system, A2 (B/G, D/K) system
Teletext systems	FLOF (Fastext), WST (World Standard System)	FLOF (Fastext), TOP, WST (World Standard System)
Power requirements	110 - 240 V AC, 50/60 Hz	
Power consumption	135 W (Standby: 2.6 W)	
Screen size	Viewable area 64.8 cm (measured diagonally)	
Audio output	Rated Power output: 10 W + 10 W	
Speakers	6.6 cm round × 2	
EXT-1 terminal	Euroconnector (21-pin, SCART) • Video input, S-VIDEO (Y/C) input, Audio L/R inputs and RGB inputs are available. • TV broadcast outputs (Video and Audio L/R) are available.	
EXT-2 terminal	Euroconnector (21-pin, SCART) • Video input, S-VIDEO (Y/C) input, Audio L/R inputs and RGB inputs are available. • Video and Audio L/R outputs are available. • T-V LINK functions are available.	
EXT-3 terminal	RCA connectors × 3 S-VIDEO connector × 1 • Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available.	
EXT-4 terminal	RCA connectors × 5 • Component video (Y, Pb, Pr) input and Audio L/R inputs are available. • 625p, 525p, 1125i and 750p signals are available. 750p signal is only available for 60Hz. • Some DVD players can output 625p and 525p signals. • 1125i and 750p are new high-definition signals.	
AUDIO OUT terminal	RCA connectors × 2 • Audio L/R outputs are available. • Output level 0.5 Vrms.	
PC INPUT terminal	Analogue RGB D-SUB (15 pin) × 1 • PC signal is available. Refer to page 62 for details of the signals which can be input.	
Headphone jack	Stereo mini-jack (3.5 mm in diameter)	
Dimensions (W × H × D)	702.5 mm × 560 mm × 295 mm 702.5 mm × 490.7 mm × 106.8 mm (without stand)	
Weight	15.5 kg 13.0 kg (without stand)	
Accessories	Remote control unit × 1 (RM-C1813H) AA/R6 dry cell battery × 2	

We may change the design and specifications without notice.

Pictures displayed on the screen using this TV's ZOOM functions should not be shown for any commercial or demonstration purpose in public places (cafes, hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this would be an infringement of copyright.

JVC

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LCT1703-001A-U
0804-T-CR-JMUK

JVC

SCHEMATIC DIAGRAMS

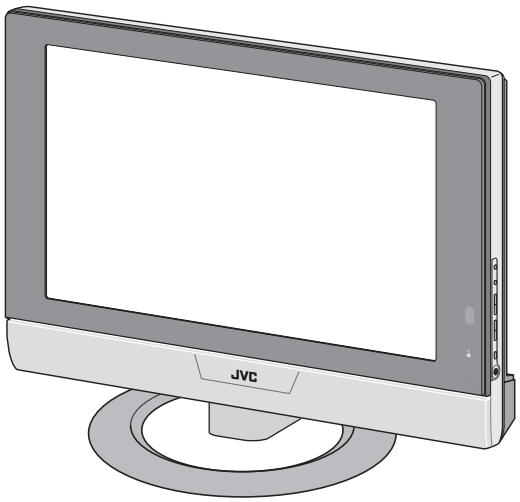
LCD INTEGRATED DIGITAL TV

LT-32D50BJ,
LT-32D50SJ

CD-ROM No.SML200501

BASIC CHASSIS
FL





D.I.S.T. Digital Image Scaling Technology

InteriArt

T-V LINK

BBE

DynaPiX Powered by D.I.S.T.

DVB Digital Video Broadcasting

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No.YA206
2005/01

LT-32D50BJ, LT-32D50SJ

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety ciritical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped
(3)Internal resistance of tester	: DC 20kΩ/V
(4)Oscilloscope sweeping time	: H ⇒ 20μs / div
	: V ⇒ 5ms / div
	: Othters ⇒ Sweeping time is specified
(5)Voltage values	: All DC voltage values

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board : R1209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	: [Ω]
K	: [kΩ]
M	: [MΩ]

● Rated allowable power

No indication	: 1/16 [W]
Others	: As specified

● Type

No indication	: Carbon resistor
OMR	: Oxide metal film resistor
MFR	: Metal film resistor
MPR	: Metal plate resistor
UNFR	: Uninflammable resistor
FR	: Fusible resistor

∗ Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	: [pF]
less than 1	: [μF]

● Withstand voltage

No indication	: DC50[V]
Others	: DC withstand voltage [V]
AC indicated	: AC withstand voltage [V]

∗ Electrolytic Capacitors

47/50[Example]: Capacitance value [μF]/withstand voltage[V]

● Type

No indication	: Ceramic capacitor
MM	: Metalized mylar capacitor
PP	: Polypropylene capacitor
MPP	: Metalized polypropylene capacitor
MF	: Metalized film capacitor
TF	: Thin film capacitor
BP	: Bipolar electrolytic capacitor
TAN	: Tantalum capacitor

(3)Coils

No unit	: [μH]
Others	: As specified

(4)Power Supply

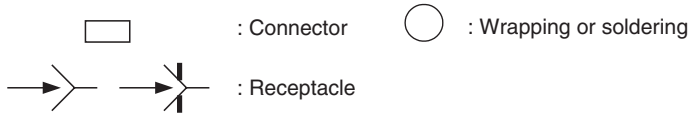


∗ Respective voltage values are indicated

(5)Test point



(6)Connecting method



(7)Ground symbol

⊥ : LIVE side ground

⏚ : ISOLATED(NEUTRAL) side ground

⏚ : EARTH ground

▽ : DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

◆ **Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

CONTENTS

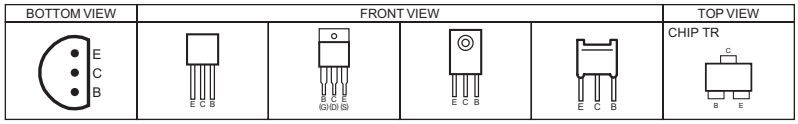
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USING P.W. BOARD

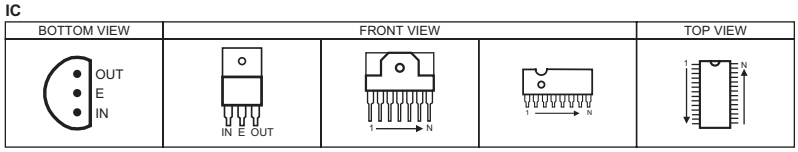
P.W.B ASS'Y name	LT-32D50BJ	LT-32D50SJ
RECEIVER PWB	SFL0F202A-U2	←
ANALOG SIGNAL PWB	SFL-1022A-U2	←
DIGITAL SIGNAL PWB	LCA10428-62B (SFL-0D204A)	←
CONNECTOR PWB	SFL-4022A-U2	←
FRONT CONTROL PWB	SFL-7022A-U2	←
FRONT SENSOR PWB	SFL-8022A-U2	←
REGULATOR PWB	SFL-9110A-U2	←
POWER PWB	SFL-9010A-U2	←

SEMICONDUCTOR SHAPES

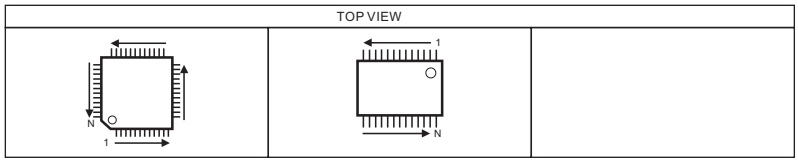
TRANSISTOR



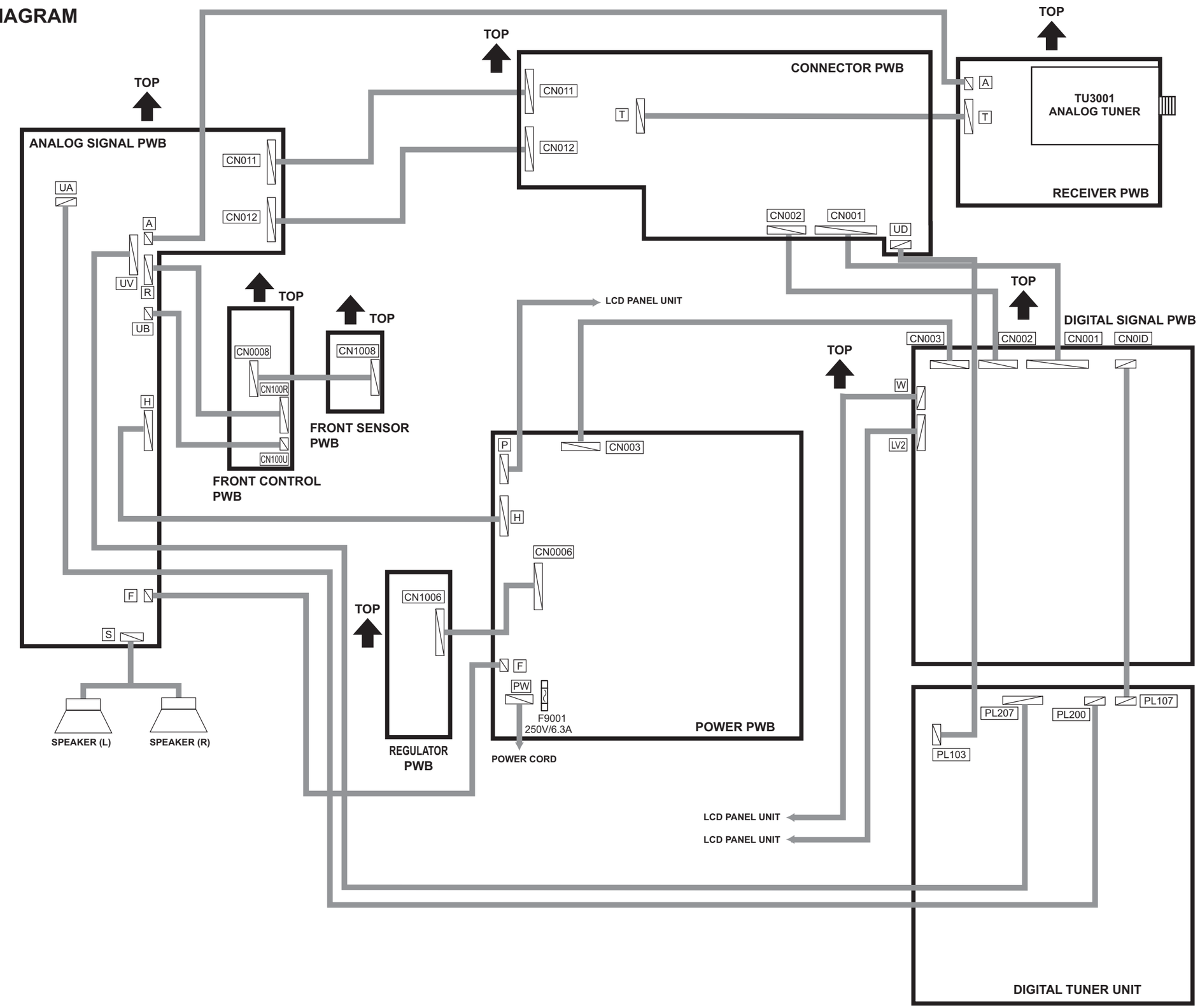
IC



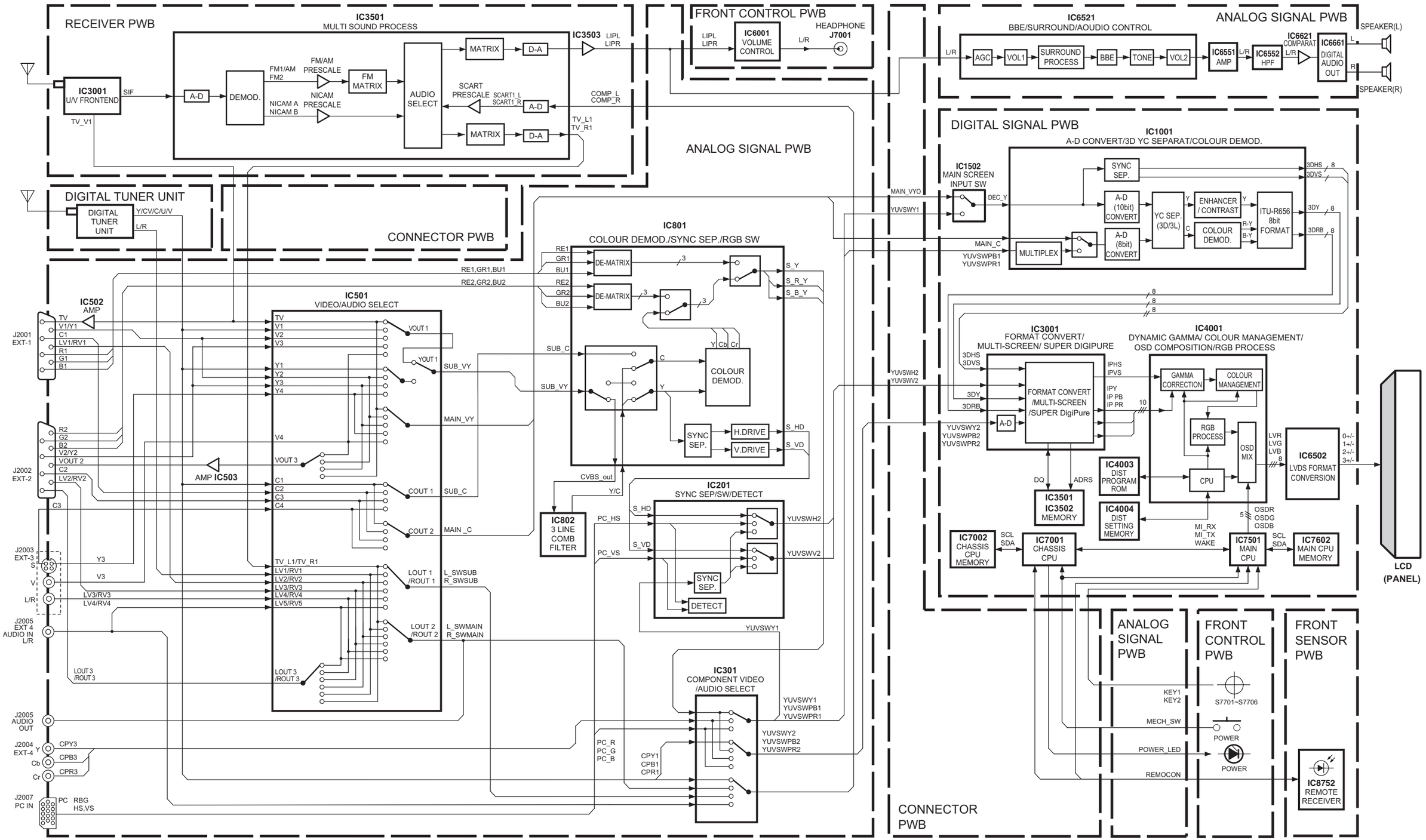
CHIP IC



WIRING DIAGRAM

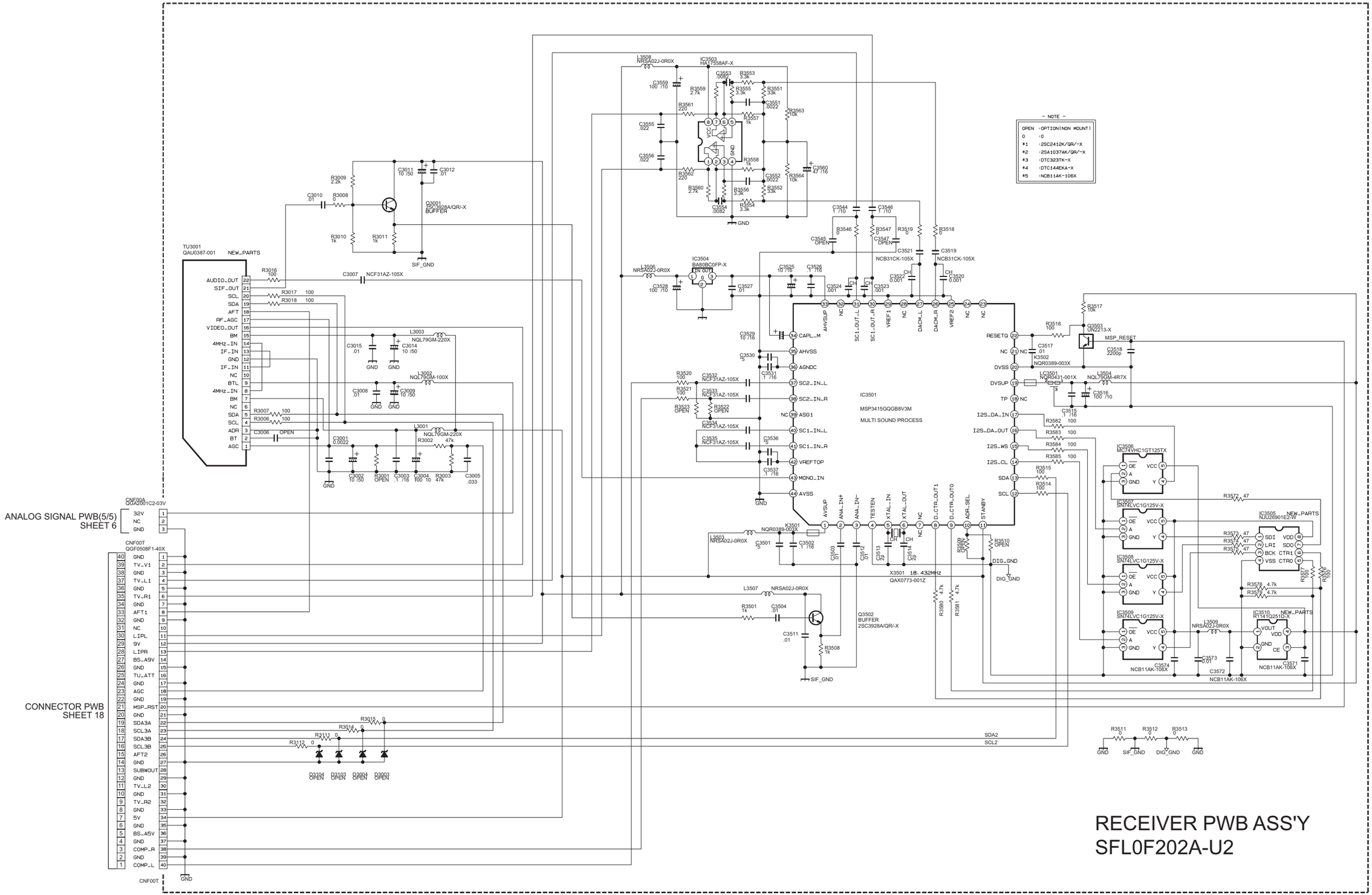


BLOCK DIAGRAM



CIRCUIT DIAGRAMS

RECEIVER PWB CIRCUIT DIAGRAM SHEET1



RECEIVER PWB ASS'Y
SFL0F202A-U2

c10314001a_1/1_0.1

ANALOG SIGNAL PWB ASS'Y(1/5)
SFL-1022A-U2

DIGITAL TUNER UNIT

SHEET 4

DIGITAL TUNER UNIT

NOT USED

RGB IN

EXT-1

EXT-2

EXT-3

AV SELECTER

VIDEO/AUDIO SELECT

MONITOR

MAIN 3DYC

SHEET 3

SHEET 4

SHEET 3,4,5,6

SHEET 3

SHEET 4

SHEET 3

SHEET 5

SHEET 3

SHEET 4

SHEET 3,4

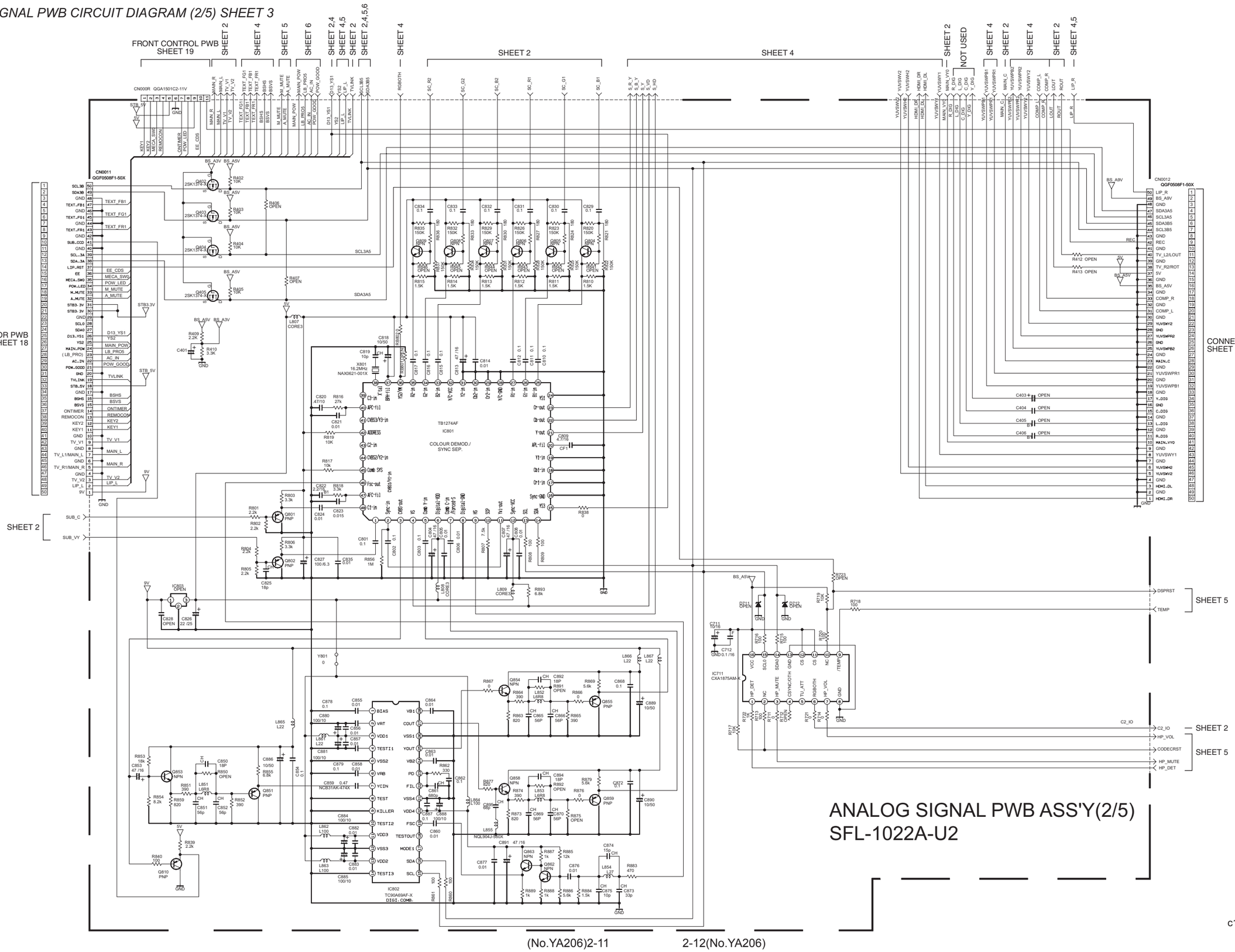
SHEET 3

DIFFERENCE LIST

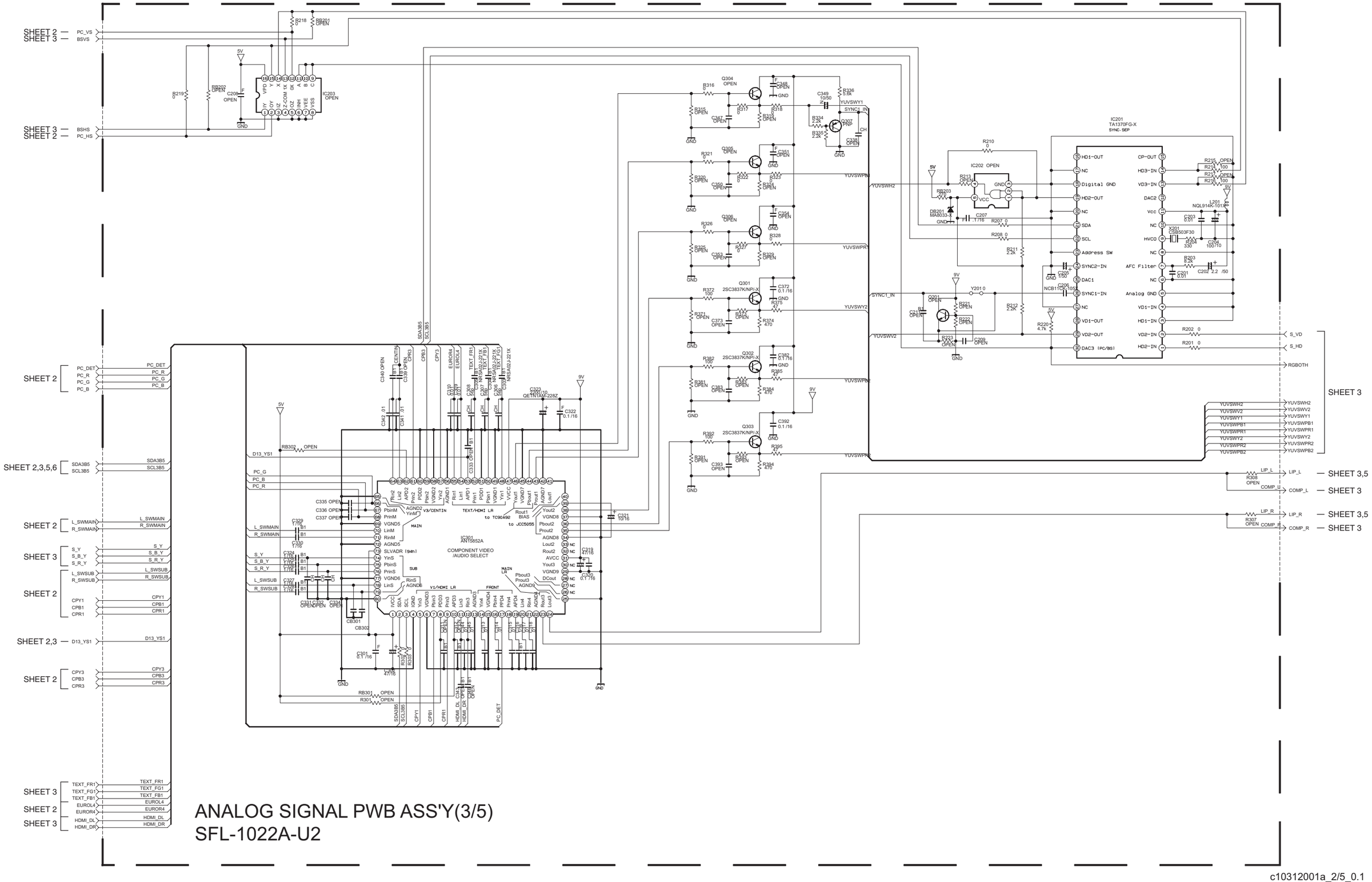
ASS'Y	LCA90381 -04*/06*	LCA90381 -05*/07*
No.	SFL-1021A SFL-1023A	SFL-1022A SFL-1024A
	GLLC06570 GLL06573-00	QLLC07107 QLL07787-00
IC504	OPEN	MM1510XN-X
Q509	OPEN	2SA1530A /QR/-X
R532	OPEN	0
R533	OPEN	1K
R579	OPEN	2.2K
R580	OPEN	2.2K
R581	OPEN	5.6K
R587	OPEN	0
R589	OPEN	0
C524	OPEN	1/16
C525	OPEN	10/16
C526	OPEN	100/10
C527	OPEN	10/16
Q511	OPEN	2SA1530A /QR/-X
Q513	OPEN	UMX1N-W
R561	OPEN	1K
R563	OPEN	68
R564	OPEN	150
R565	OPEN	150
R566	OPEN	5.6K
R567	OPEN	5.6K
R568	OPEN	3.3K
R582	OPEN	3.3K
C561	OPEN	0.1 /16
C562	OPEN	1 /16
CN00UV	OPEN	QGA2001C2 -12V
CN00UA	OPEN	QGA2001C2 -03V
R591	OPEN	75
R592	OPEN	75
R593	OPEN	75
R594	OPEN	75
R595	OPEN	75
R596	OPEN	0
R597	OPEN	0
C591	OPEN	1/16
C592	OPEN	1/16
C593	OPEN	1/16
C594	OPEN	10/16
C595	OPEN	1/16
C513	OPEN	1/16
C514	OPEN	1/16
R2103	75	OPEN

c10312001a_1/5_0.1

ANALOG SIGNAL PWB CIRCUIT DIAGRAM (2/5) SHEET 3



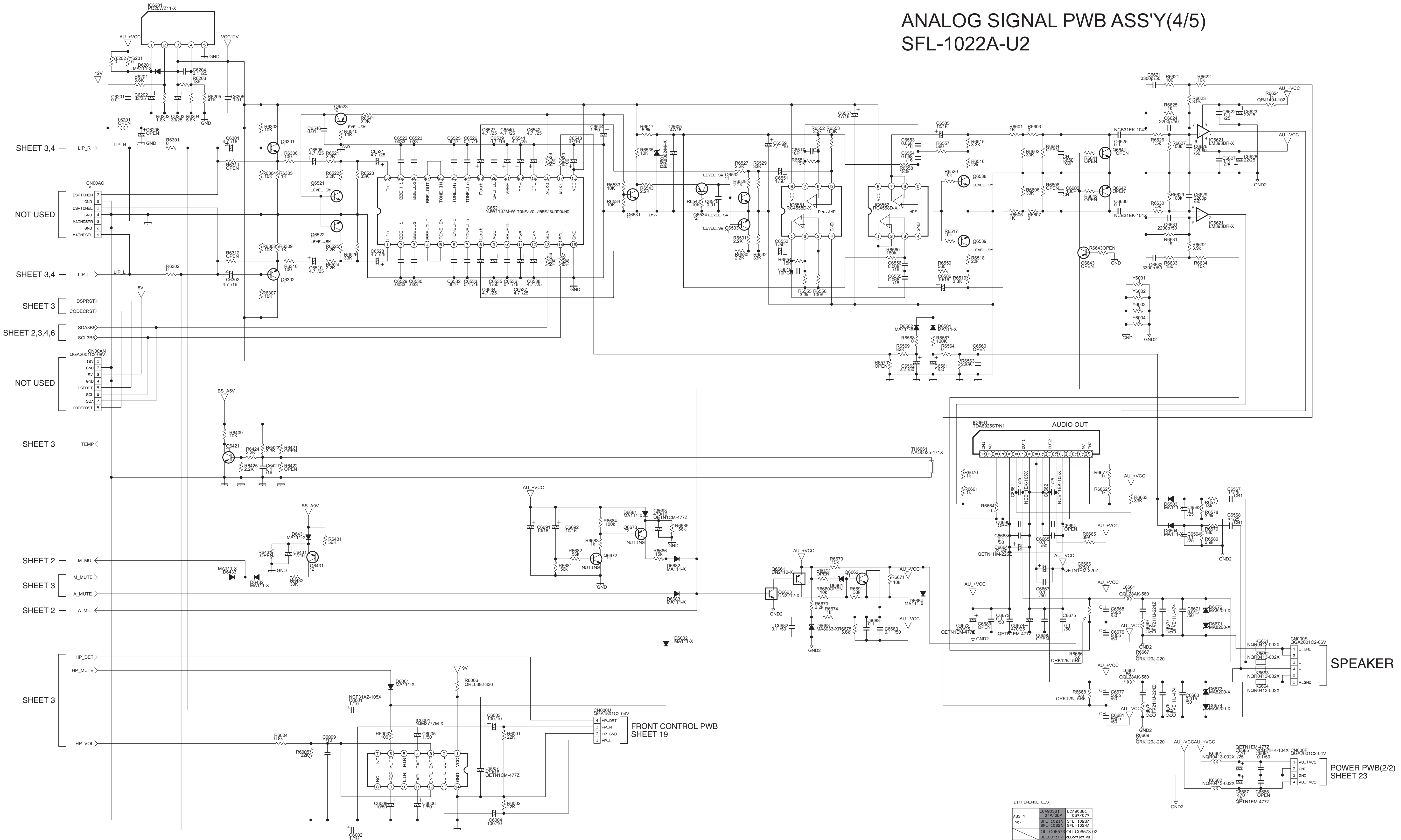
ANALOG SIGNAL PWB CIRCUIT DIAGRAM (3/5) SHEET 4



ANALOG SIGNAL PWB ASS'Y(3/5)
SFL-1022A-U2

c10312001a_2/5_0.1

ANALOG SIGNAL PWB ASS'Y(4/5)
SFL-1022A-U2



DIFFERENCE LIST

ASS'Y No.	LCA90381 -04*/05*	LCA90381 -06*/07*
	SFL-1021A SFL-1022A	SFL-1023A SFL-1024A
	OLLC06573 OLLC07107	OLLC06573-02 OLLC07107-02
CN00AC	OPEN	QGA2001C2-07V

c10312001a_4/5_0.1

RECEIVER PWB
SHEET 1

CN000A
QGA2001C2-03V

DIFFERENCE LIST

ASS' Y No.	LCA903B1 -04*/06*	LCA903B1 -05*/07*
	SFL-1021A SFL-1023A	SFL-1022A SFL-1024A
	OLLC06573 OLLC06573-02	OLLC07107 OLLC07107-02
CN00UB	OPEN	QGA2001C2 -06V

CN00UB
*
GND 6
BT 5
GND 4
BS5V 3
BS9V 2
UK_12V 1

CONNECTOR PWB
SHEET 18

CN000H
QGF1201C2-19
1 POW_GOOD 19
2 AC 18
3 MAIN_POW 17
4 GND 16
5 SCL 15
6 GND 14
7 SDA 13
8 GND 12
9 BT 11
10 STB5V 10
11 SW12V 9
12 UK_12V 8
13 BS9V 7
14 BS9V 6
15 BS5V 5
16 BS5V 4
17 BS5V 3
18 GND 2
19 GND 1

POWER PWB(2/2)
SHEET 23

Y901 0
Y902 0
Y913 0
Y914 0
Y903 0
Y904 0
Y915 0
Y916 0
GND_S1
GND_S2
GND

Y905 0
Y906 0
Y907 0
Y908 0
Y919 0
Y920 0
GND_S3
GND_S4
GND

Y909 OPEN
Y910 OPEN
Y921 OPEN
Y922 OPEN
Y911 0
Y912 0
Y917 OPEN
Y918 OPEN
GND_S5
GND_S6
GND
GND2

SCL3B5
SDA3B5
SHEET 2,3,4,5

BS_ABT30
12V
ILA5V
STB_5V
STB3.3V
BS_A9V
BS_A5V
12V
9V
5V

Q901 BA09FP-X
9V REG
1 2 3

L901 OPEN
C911 OPEN
GND
R909 0 NRSA02J-0R0X
R907 0 1/2W NRS12BJ-0R0W
C912 47/16
GND
C906 47/16
GND
NEHM1CM-476X

L902 NQL52EM-220X
D903 PTZ11B-X
C913 NEX51CM-335X
GND

IC902 TA48M033F-X
1 2 3
D901 NRSA02J-0R0X
D909 OPEN
C904 NCB11AK-106X
C905 47/16
NEHM1CM-476X
GND

L903 NQL52EM-220X
C914 NEX50JM-156X
GND

L904 NQL52EM-220X
D904 PTZ6.8B-X
C916 NEX50JM-156X
GND

5V SWITCH
R908 470 1/2W
Q902 2SC3074/OY/-X
C915 47/16
GND

R917 0 NRSA02J-0R0X

R901 OPEN
R903 OPEN
D902 OPEN
C901 OPEN
D905 OPEN
Q903 OPEN
R902 OPEN
R904 OPEN
GND

LB_PRO5
SHEET 3
MAIN_POW
AC_IN
POW_GOOD

ANALOG SIGNAL PWB ASS'Y(5/5)
SFL-1022A-U2

c10312001a_5/5_0.1

DIGITAL SIGNAL PWB CIRCUIT DIAGRAM (1/11) SHEET 7

※The blank part of a difference list : Refer to circuit block.

#1 DIFFERENCE LIST
(JPN MODEL/ etc)

NOTE					
Selling Country	JPN	US	EU	UK	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D101A (etc)	SFL-0D201A (etc)	SFL-0D002A (etc)	SFL-0D301A (etc)
	OLLC0613A -02 (etc)	OLLC0613A -05 (etc)	OLLC0613A -09 (etc)	OLLC0613A -10 (etc)	OLLC0613A -13 (etc)
X1531	NAX0118 -001X	OPEN	OPEN	OPEN	OPEN
RA1531	NRZ0034 -103W	OPEN	OPEN	OPEN	OPEN
RA1532	NRZ0034 -103W	OPEN	OPEN	OPEN	OPEN
R1501		OPEN	OPEN	OPEN	OPEN
R1503		OPEN	OPEN	OPEN	OPEN
R1508		OPEN	OPEN	OPEN	OPEN
R1513		OPEN	OPEN	OPEN	OPEN
R1531		OPEN	OPEN	OPEN	OPEN
R1532		OPEN	OPEN	OPEN	OPEN
R1534		OPEN	OPEN	OPEN	OPEN
R1535		OPEN	OPEN	OPEN	OPEN
R1536		OPEN	OPEN	OPEN	OPEN
R1537		OPEN	OPEN	OPEN	OPEN
R1538		OPEN	OPEN	OPEN	OPEN
R1539		OPEN	OPEN	OPEN	OPEN
R1540		OPEN	OPEN	OPEN	OPEN
R1541		OPEN	OPEN	OPEN	OPEN
R1544		OPEN	OPEN	OPEN	OPEN
R1545		OPEN	OPEN	OPEN	OPEN
R1546		OPEN	OPEN	OPEN	OPEN
R1547		OPEN	OPEN	OPEN	OPEN
R1548		OPEN	OPEN	OPEN	OPEN
R1549		OPEN	OPEN	OPEN	OPEN
R1550		OPEN	OPEN	OPEN	OPEN
R1551		OPEN	OPEN	OPEN	OPEN
R1552		OPEN	OPEN	OPEN	OPEN
R1553		OPEN	OPEN	OPEN	OPEN
R1554		OPEN	OPEN	OPEN	OPEN
R1558		OPEN	OPEN	OPEN	OPEN
R1559		OPEN	OPEN	OPEN	OPEN
R1560		OPEN	OPEN	OPEN	OPEN
R1561		OPEN	OPEN	OPEN	OPEN
R1565		OPEN	OPEN	OPEN	OPEN
R1566		OPEN	OPEN	OPEN	OPEN
R1567		OPEN	OPEN	OPEN	OPEN
R1568		OPEN	OPEN	OPEN	OPEN
R1569		OPEN	OPEN	OPEN	OPEN
R1571		OPEN	OPEN	OPEN	OPEN
R1572		OPEN	OPEN	OPEN	OPEN
R1573		OPEN	OPEN	OPEN	OPEN
R1574		OPEN	OPEN	OPEN	OPEN
R1575		OPEN	OPEN	OPEN	OPEN
R1576		OPEN	OPEN	OPEN	OPEN
R1577		OPEN	OPEN	OPEN	OPEN
R1578		OPEN	OPEN	OPEN	OPEN
R1583		OPEN	OPEN	OPEN	OPEN
Q1531		OPEN	OPEN	OPEN	OPEN
Q1532		OPEN	OPEN	OPEN	OPEN
Q1533		OPEN	OPEN	OPEN	OPEN
Q1534		OPEN	OPEN	OPEN	OPEN
Q1536		OPEN	OPEN	OPEN	OPEN
L1531		OPEN	OPEN	OPEN	OPEN
L1532		OPEN	OPEN	OPEN	OPEN
L1533	NRSA02J -0R0X	OPEN	OPEN	OPEN	OPEN
L1534	NRSA02J -0R0X	OPEN	OPEN	OPEN	OPEN
L1537	NQL014K -470X	OPEN	OPEN	OPEN	OPEN
L1541		OPEN	OPEN	OPEN	OPEN
L1542		OPEN	OPEN	OPEN	OPEN
L1543		OPEN	OPEN	OPEN	OPEN
L1544		OPEN	OPEN	OPEN	OPEN
L1545		OPEN	OPEN	OPEN	OPEN
L1546		OPEN	OPEN	OPEN	OPEN
L1547		OPEN	OPEN	OPEN	OPEN
L1548		OPEN	OPEN	OPEN	OPEN
L1549		OPEN	OPEN	OPEN	OPEN
IC1503	S-80828CLNB -G-W	OPEN	OPEN	OPEN	OPEN
IC1531	OR4330 4BMQC	OPEN	OPEN	OPEN	OPEN
IC1532	DPA354A IDBV -X	OPEN	OPEN	OPEN	OPEN
IC1533	TC7S04FU -X	OPEN	OPEN	OPEN	OPEN
IC1534	TC74HC04F U -X	OPEN	OPEN	OPEN	OPEN
D1501		OPEN	OPEN	OPEN	OPEN
D1531		OPEN	OPEN	OPEN	OPEN
C1510		OPEN	OPEN	OPEN	OPEN
C1531		OPEN	OPEN	OPEN	OPEN
C1532		OPEN	OPEN	OPEN	OPEN
C1533		OPEN	OPEN	OPEN	OPEN
C1534		OPEN	OPEN	OPEN	OPEN
C1535		OPEN	OPEN	OPEN	OPEN
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C1544		OPEN	OPEN	OPEN	OPEN
C1545		OPEN	OPEN	OPEN	OPEN
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C1549		OPEN	OPEN	OPEN	OPEN
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C1553		OPEN	OPEN	OPEN	OPEN
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C1562		OPEN	OPEN	OPEN	OPEN
C1563		OPEN	OPEN	OPEN	OPEN
C1564		OPEN	OPEN	OPEN	OPEN
C1565		OPEN	OPEN	OPEN	OPEN
C1566		OPEN	OPEN	OPEN	OPEN
C1567		OPEN	OPEN	OPEN	OPEN
C1569		OPEN	OPEN	OPEN	OPEN
C1570		OPEN	OPEN	OPEN	OPEN
C1571		OPEN	OPEN	OPEN	OPEN
C1572		OPEN	OPEN	OPEN	OPEN

#2 DIFFERENCE AREA

#1 DIFFERENCE AREA

JPN MODEL : MOUNT
etc : NO MOUNT

NJM2235/CTL

SW1	SW2	Vout
L	L	Vin1
H	L	Vin2
L/H	H	Vin3

SHEET17 — MAIN_VY, YUVSW_Y1

SHEET16 — GR_RST, GRON

SHEET9 — DEC_Y

SHEET16 — MCmp/OTH

SHEET9 — GRD0, GRD1, GRD2, GRD3, GRD4, GRD5, GRD6, GRD7, GRD8, GRD9

SHEET9,12,16 — SDA3A, SCL3A

SHEET9 — 4FSC

- NOTE -

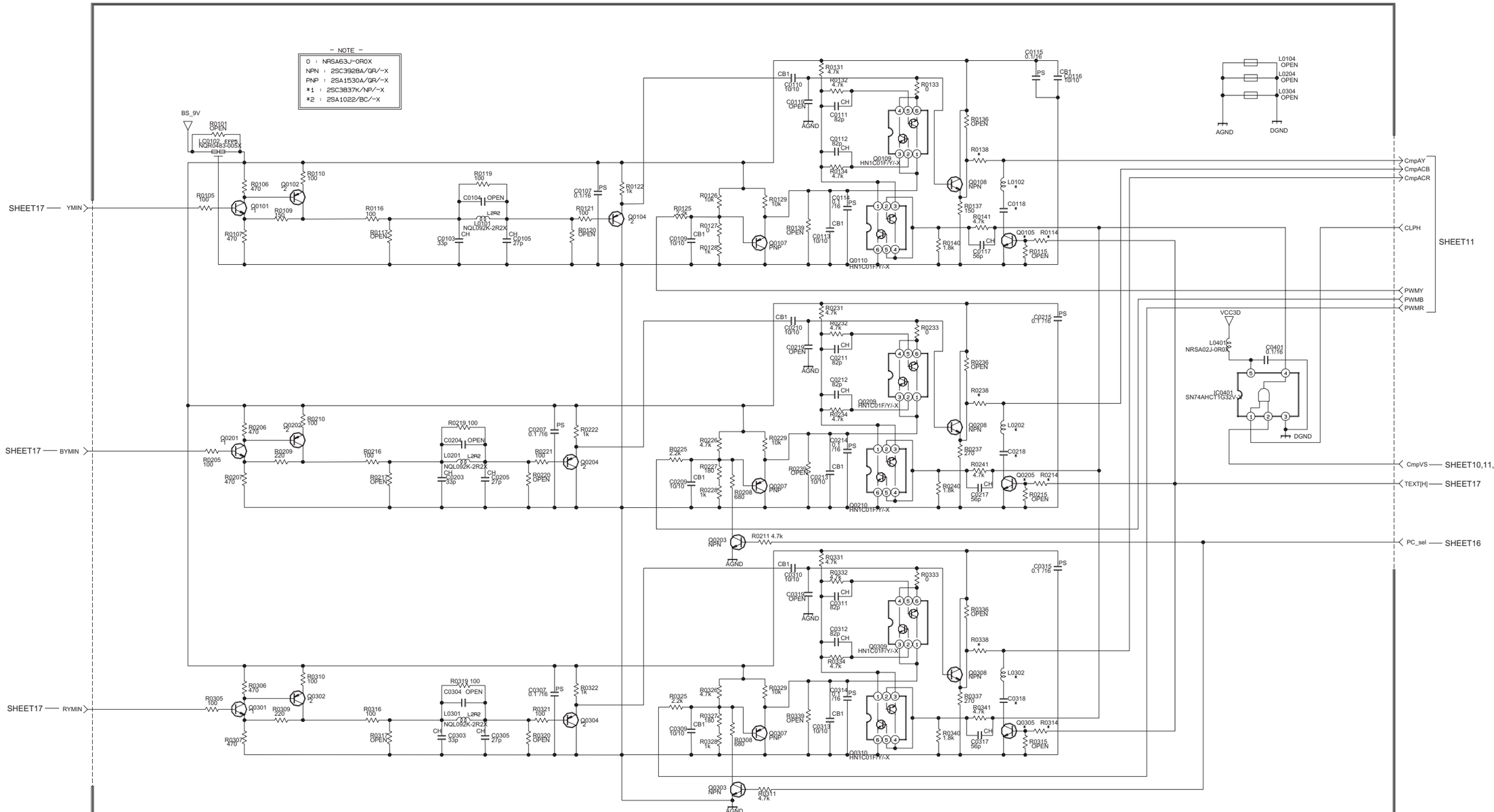
0 : NRSA63J-0R0X
NPN : 2SC3928A/GR/-X
PNP : 2SA1530A/GR/-X
*1 : NQR0413-003X
*2 : NQL092K-100X
*3 : NQL092K-2R2X
*4 : NQL092K-8R8X
*5 : MA111-X
LC1 : NQR0470-001X
LC2 : NQR0470-007X
LC3 : NQR0313-009X

DIGITAL SIGNAL PWB ASS'Y (1/11)
LCA10428-62B (SFL-0D204A)

#2 DIFFERENCE LIST
(JPN MODEL/ etc)

NOTE					
Selling Country	JPN	US	EU	UK	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D101A (etc)	SFL-0D201A (etc)	SFL-0D002A (etc)	SFL-0D301A (etc)
	OLLC0613A -02 (etc)	OLLC0613A -05 (etc)	OLLC0613A -09 (etc)	OLLC0613A -10 (etc)	OLLC0613A -13 (etc)
L1502	*1	OPEN	OPEN	OPEN	OPEN
C1507	0.1/16	OPEN	OPEN	OPEN	OPEN
IC1501	NJM2235 -X	OPEN	OPEN	OPEN	OPEN
R1584	OPEN	0	0	0	0
R1523	1M	NCF31G2 -105X	NCF31G2 -105X	NCF31G2 -105X	NCF31G2 -105X

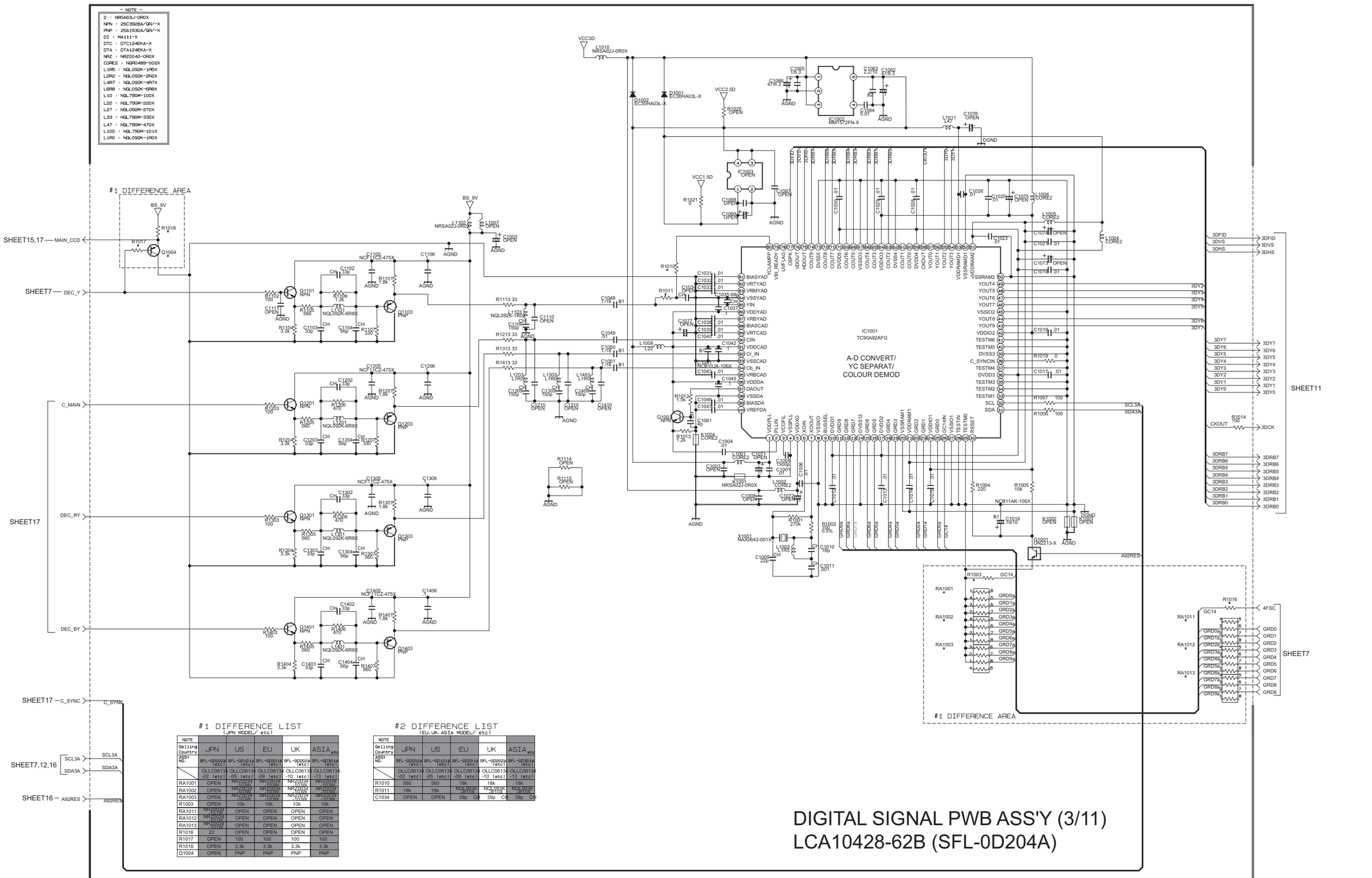
c10265010b_1110_10/12_0.0



DIGITAL SIGNAL PWB ASS'Y (2/11)
LCA10428-62B (SFL-0D204A)

#1 DIFFERENCE AREA
(EU, UK, ASIA MODEL/ etc)

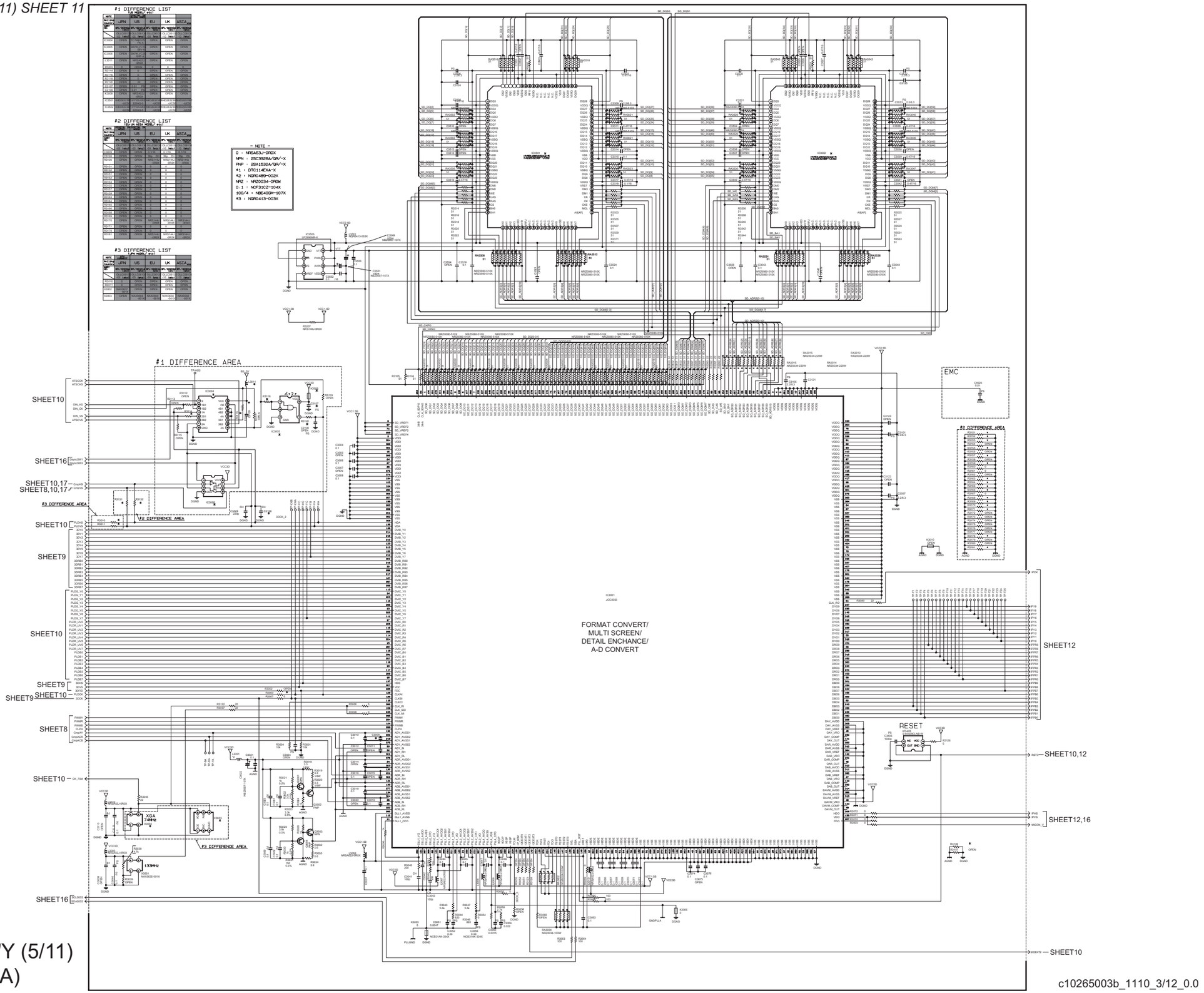
NOTE					
Selling Country	JPN	US	EU	UK	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D101A (etc)	SFL-0D201A (etc)	SFL-0D202A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -10 (etc)	OLLC06134 -13 (etc)
C0118	OPEN	OPEN	150p CH	150p CH	150p CH
L0102	OPEN	OPEN	NQL092K -1R0X	NQL092K -1R0X	NQL092K -1R0X
Q0105	OPEN	OPEN	NPN	NPN	NPN
R0114	OPEN	OPEN	4.7k	4.7k	4.7k
R0138	0	0	33	33	33
C0218	OPEN	OPEN	150p CH	150p CH	150p CH
L0202	OPEN	OPEN	NQL092K -1R0X	NQL092K -1R0X	NQL092K -1R0X
Q0205	OPEN	OPEN	NPN	NPN	NPN
R0214	OPEN	OPEN	4.7k	4.7k	4.7k
R0238	0	0	33	33	33
C0318	OPEN	OPEN	150p CH	150p CH	150p CH
L0302	OPEN	OPEN	NQL092K -1R0X	NQL092K -1R0X	NQL092K -1R0X
Q0305	OPEN	OPEN	NPN	NPN	NPN
R0314	OPEN	OPEN	4.7k	4.7k	4.7k
R0338	0	0	33	33	33



NOTE					
Selling Country	JPN	US	EU	UK	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D101A (etc)	SFL-0D201A (etc)	SFL-0D202A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -10 (etc)	OLLC06134 -13 (etc)
RA1001	OPEN	NRZ0039 -103W	NRZ0039 -103W	NRZ0039 -103W	NRZ0039 -103W
RA1002	OPEN	NRZ0039 -103W	NRZ0039 -103W	NRZ0039 -103W	NRZ0039 -103W
RA1003	OPEN	NRZ0039 -103W	NRZ0039 -103W	NRZ0039 -103W	NRZ0039 -103W
R1003	OPEN	10k	10k	10k	10k
RA1011	NRZ0039 -101W	OPEN	OPEN	OPEN	OPEN
RA1012	NRZ0039 -101W	OPEN	OPEN	OPEN	OPEN
RA1013	NRZ0039 -101W	OPEN	OPEN	OPEN	OPEN
R1016	22	OPEN	OPEN	OPEN	OPEN
R1017	OPEN	100	100	100	100
R1018	OPEN	3.3k	3.3k	3.3k	3.3k
Q1004	OPEN	PNP	PNP	PNP	PNP

NOTE					
Selling Country	JPN	US	EU	UK	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D101A (etc)	SFL-0D201A (etc)	SFL-0D202A (etc)	SFL-0D301A (etc)
	OLLC06134 -02 (etc)	OLLC06134 -05 (etc)	OLLC06134 -09 (etc)	OLLC06134 -10 (etc)	OLLC06134 -13 (etc)
R1010	560	560	18k	18k	18k
R1011	18k	18k	NQL093K -R10X	NQL093K -R10X	NQL093K -R10X
C1034	OPEN	OPEN	39p CH	39p CH	39p CH

DIGITAL SIGNAL PWB ASS'Y (4/11)
LCA10428-62B (SFL-0D204A)



DIGITAL SIGNAL PWB ASS'Y (5/11)
LCA10428-62B (SFL-0D204A)

c10265003b_1110_3/12_0.0

#1 DIFFERENCE LIST
(JPN MODEL/ US MODEL/ etc)

NOTE / Selling Country / ASSY NO.	JPN	US	EU	UK	ASIA etc
	SFL-0D000A (etc)	SFL-0D101A (etc)	SFL-0D201A (etc)	SFL-0D202A (etc)	SFL-0D301A (etc)
	OLLC0613A -02 (etc)	OLLC0613A -05 (etc)	OLLC0613A -09 (etc)	OLLC0613 -10 (etc)	OLLC0613 -13 (etc)
R4068	OPEN	47	47	47	47
R4062	0	OPEN	OPEN	OPEN	OPEN
R4061	0	OPEN	0	0	0
IC4005	OPEN	NJM2391M	OPEN	OPEN	OPEN
R4008	0	100	100	100	100

#2 DIFFERENCE LIST
(EU& UK& ASIA MODEL/ etc)

NOTE / Selling Country / ASSY NO.	JPN	US	EU	UK	ASIA etc
	SFL-0D000A (etc)	SFL-0D101A (etc)	SFL-0D201A (etc)	SFL-0D202A (etc)	SFL-0D301A (etc)
	OLLC0613A -02 (etc)	OLLC0613A -05 (etc)	OLLC0613A -09 (etc)	OLLC0613 -10 (etc)	OLLC0613 -13 (etc)
R4028	10k	10k	OPEN	OPEN	OPEN
R4108	OPEN	OPEN	0	0	0
R4109	1k	1k	OPEN	OPEN	OPEN
C4031	NC/0.33K	NC/0.33K	OPEN	OPEN	OPEN
Q4001	2SC4081R	2SC4081R	OPEN	OPEN	OPEN
R4068	1k	1k	0	0	0
R4152	OPEN	OPEN	0	0	0

SHEET10,11 — RST3
SHEET10,15,16 — DD_OSDHS, DD_OSDVS
SHEET10,16 — DOOSDCK2
SHEET15,17 — DD_OSDCK
SHEET10,15,17 — MI_OSDYS, MI_OSDYM
SHEET10,15,17 — OSDG5, OSDG4
SHEET10,17 — OSDG3, OSDG2, OSDG1
SHEET10 — OSDG0
SHEET10,15,17 — OSDB5, OSDB4, OSDB3, OSDB2
SHEET10,17 — OSDB1
SHEET10 — OSDB0
SHEET10,15,17 — OSDR4, OSDR3, OSDR2
SHEET10,17 — OSDR1
SHEET10 — OSDR0
SHEET11 — IPY9, IPY8, IPY7, IPY6, IPY5, IPY4, IPY3, IPY2, IPY1, IPY0, IPPB9, IPPB8, IPPB7, IPPB6, IPPB5, IPPB4, IPPB3, IPPB2, IPPB1, IPPB0, IPPR9, IPPR8, IPPR7, IPPR6, IPPR5, IPPR4, IPPR3, IPPR2, IPPR1, IPPR0
SHEET11 — IPCK
SHEET11,16 — IPVS, IPHS
SHEET13 — LVR9, LVR8, LVR7, LVR6, LVR5, LVR4, LVR3, LVR2, LVR1, LVR0, LVB9, LVB8, LVB7, LVB6, LVB5, LVB4, LVB3, LVB2, LVB1, LVB0, LVG9, LVG8, LVG7, LVG6, LVG5, LVG4, LVG3, LVG2, LVG1, LVG0

#1 DIFFERENCE AREA
#2 DIFFERENCE AREA

IC4001
JCC5057

DYNAMIC GAMMA/
COLOUR MANAGEMENT/
RGB PROCESS

IC4003
IC4004
IC4005

SHEET15 — Tx5057, Rx5057
SHEET16 — P_MU
SHEET13 — ANA_DIM
SHEET16 — STBUSY
SHEET13 — BL_ON, PWM_DIM
SHEET17 — HALFTONG
SHEET14 — DDR7, DDR6, DDR5, DDR4, DDR3, DDR2, DDR1, DDR0
SHEET13 — DDR01, DDR00
SHEET14 — DDB7, DDB6, DDB5, DDB4, DDB3, DDB2, DDB1, DDB0
SHEET13 — DDB01, DDB00
SHEET14 — DDG7, DDG6, DDG5, DDG4, DDG3, DDG2, DDG1, DDG0
SHEET13 — DDG01, DDG00
SHEET7,9,16 — SCL3A, SDA3A
SHEET13 — LV_HS, LV_BLK, LV_VS, LV_CK
SHEET14 — DDCK, RGBVS, RGBBLK, DDHS
SHEET11,16 — MCON_V

NOTE : Refer to the part list for the part number of IC4003 and IC4004.

DIGITAL SIGNAL PWB ASS'Y (6/11)
LCA10428-62B (SFL-0D204A)

– NOTE –
0 : NRSA63J-0R0X

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#1 DIFFERENCE LIST
(JPN, US MODEL, etc)

NOTE					
Selling Country	JPN	US	EU	UK	ASIA etc
ASSY NO.	SFL-0Q002A (etc)	SFL-0Q101A (etc)	SFL-0Q201A (etc)	SFL-0Q202A (etc)	SFL-0Q301A (etc)
	OLLC0613-02 (etc)	OLLC0613-05 (etc)	OLLC0613-09 (etc)	OLLC0613-10 (etc)	OLLC0613-13 (etc)
R6534	1k	1k	0	0	0
R6543	0	0	OPEN	OPEN	OPEN
R6545	0	0	OPEN	OPEN	OPEN
R6546	0	0	OPEN	OPEN	OPEN
R6551	1k	1k	OPEN	OPEN	OPEN
R6552	1k	1k	OPEN	OPEN	OPEN
R6553	1k	1k	OPEN	OPEN	OPEN
R6554	0	0	OPEN	OPEN	OPEN
Q6502	OPEN	OPEN	NPN	NPN	NPN
R6537	OPEN	OPEN	0	0	0
R6542	0	0	1k	1k	1k
R6548	OPEN	OPEN	1k	1k	1k

– NOTE –
0 : NRSA63J-0R0X
NPN : 2SC3928A/QR/-X
PNP : 2SA1530A/QR/-X

LVDS FORMAT CONVERT

IC6501 OPEN

IC6502 THC63LVDM83R-W

L6501 NQR0370-001X

L6502 NRSA02J-0R0X

L6503 OPEN

L6504 OPEN

L6505 OPEN

L6506 OPEN

L6507 OPEN

L6508 NRZ0034-0R0W

L6509 NRZ0034-0R0W

L6510 NRZ0034-0R0W

IC6504 OPEN

CN0LV1 OPEN

CN0LV2 QGA1211F2-31X

CN0D00 QGA1501F2-12V

OPEN

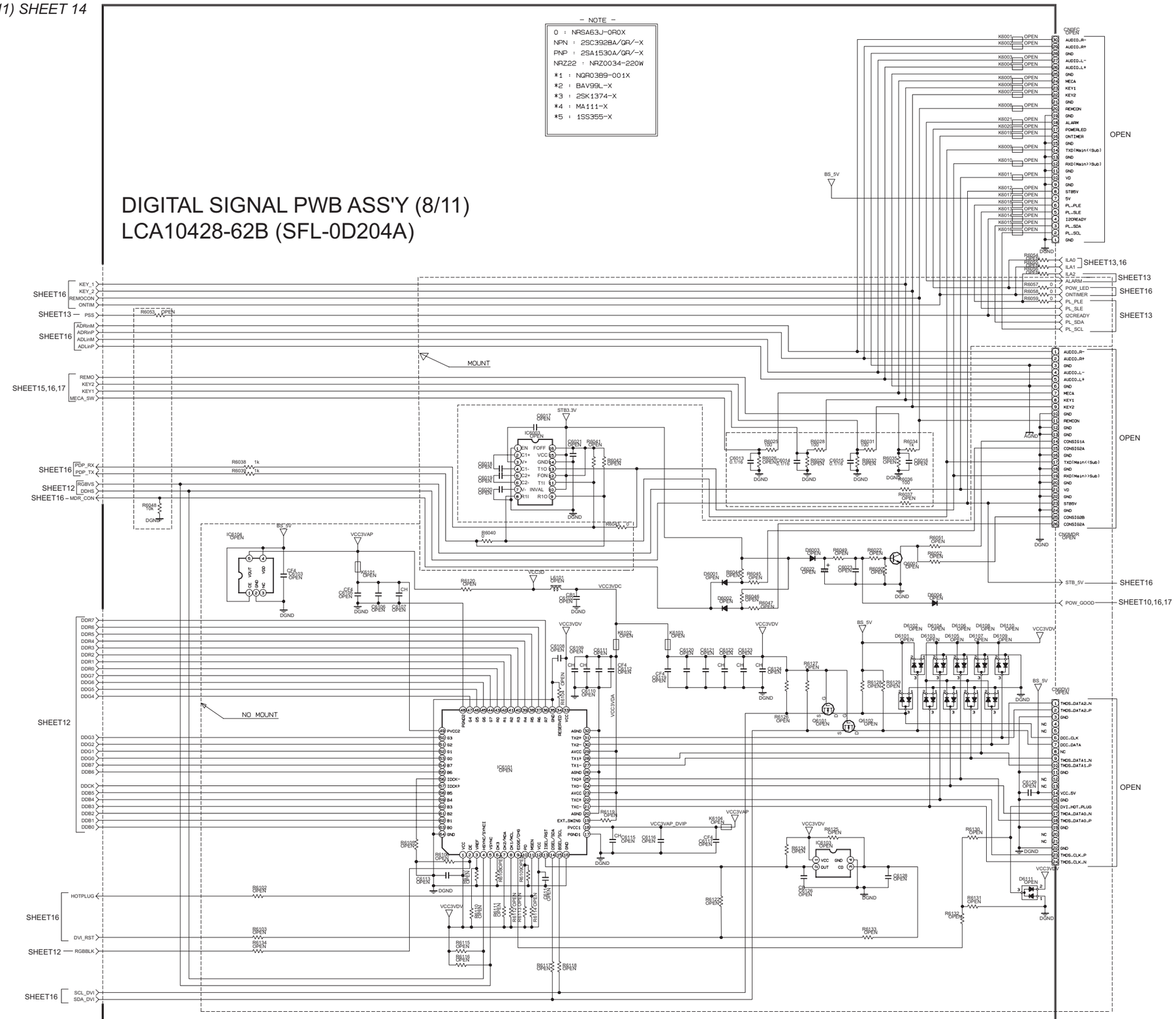
LCD PANEL UNIT

LCD PANEL UNIT

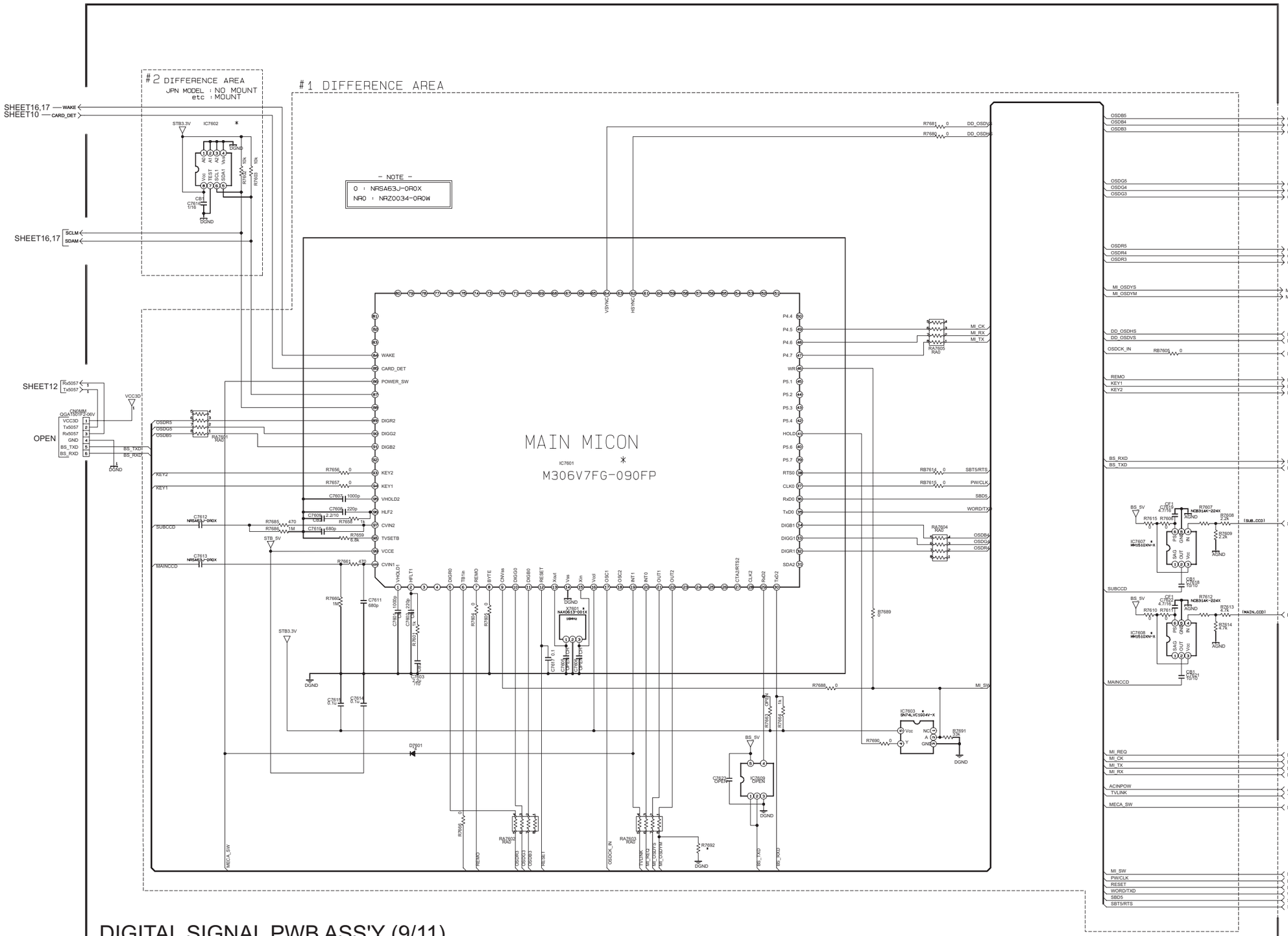
#1 DIFFERENCE AREA

DIGITAL SIGNAL PWB ASS'Y (7/11)
LCA10428-62B (SFL-0D204A)

DIGITAL SIGNAL PWB ASS'Y (8/11)
LCA10428-62B (SFL-0D204A)



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DIGITAL SIGNAL PWB ASS'Y (9/11)
LCA10428-62B (SFL-0D204A)

NOTE : Refer to the part list for the part number of IC7602.

*The blank part of a difference list : Refer to circuit block.

#1 DIFFERENCE LIST
(US MODEL/ etc)

NOTE					
Selling Country	JPN	US	EU	UK	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D101A (etc)	SFL-0D201A (etc)	SFL-0D202A (etc)	SFL-0D301A (etc)
	OLLC0613-02 (etc)	OLLC0613-05 (etc)	OLLC0613-09 (etc)	OLLC0613-10 (etc)	OLLC0613-13 (etc)
X7601	OPEN	NAX0613-001X	OPEN	OPEN	OPEN
RB7605	OPEN		OPEN	OPEN	OPEN
RB7614	OPEN		OPEN	OPEN	OPEN
RB7615	OPEN		OPEN	OPEN	OPEN
RA7601	OPEN		OPEN	OPEN	OPEN
RA7602	OPEN		OPEN	OPEN	OPEN
RA7603	OPEN		OPEN	OPEN	OPEN
RA7604	OPEN		OPEN	OPEN	OPEN
RA7605	OPEN		OPEN	OPEN	OPEN
R7601	OPEN		OPEN	OPEN	OPEN
R7604	OPEN		OPEN	OPEN	OPEN
R7605	OPEN		OPEN	OPEN	OPEN
R7606	OPEN		OPEN	OPEN	OPEN
R7607	OPEN	NCB31AK-224X	OPEN	OPEN	OPEN
R7608	OPEN		OPEN	OPEN	OPEN
R7609	OPEN		OPEN	OPEN	OPEN
R7610	OPEN		OPEN	OPEN	OPEN
R7611	OPEN		OPEN	OPEN	OPEN
R7612	OPEN	NCB31AK-224X	OPEN	OPEN	OPEN
R7613	OPEN		OPEN	OPEN	OPEN
R7614	OPEN		OPEN	OPEN	OPEN
R7615	OPEN		OPEN	OPEN	OPEN
R7656	OPEN		OPEN	OPEN	OPEN
R7657	OPEN		OPEN	OPEN	OPEN
R7658	OPEN		OPEN	OPEN	OPEN
R7659	OPEN		OPEN	OPEN	OPEN
R7660	OPEN		OPEN	OPEN	OPEN
R7661	OPEN		OPEN	OPEN	OPEN
R7664	OPEN		OPEN	OPEN	OPEN
R7666	OPEN		OPEN	OPEN	OPEN
R7680	OPEN		OPEN	OPEN	OPEN
R7681	OPEN		OPEN	OPEN	OPEN
R7685	OPEN		OPEN	OPEN	OPEN
R7686	OPEN		OPEN	OPEN	OPEN
R7688	OPEN		OPEN	OPEN	OPEN
R7689	OPEN		OPEN	OPEN	OPEN
R7690	OPEN		OPEN	OPEN	OPEN
R7691	OPEN		OPEN	OPEN	OPEN
C7601	OPEN	NRSA63J-0R0X	OPEN	OPEN	OPEN
C7603	OPEN	NRSA63J-0R0X	OPEN	OPEN	OPEN
C7607	OPEN	NRSA63J-0R0X	OPEN	OPEN	OPEN
C7608	OPEN	NRSA63J-0R0X	OPEN	OPEN	OPEN
D7601	OPEN		OPEN	OPEN	OPEN
C7601	OPEN		OPEN	OPEN	OPEN
C7602	OPEN		OPEN	OPEN	OPEN
C7603	OPEN		OPEN	OPEN	OPEN
C7607	OPEN		OPEN	OPEN	OPEN
C7608	OPEN		OPEN	OPEN	OPEN
C7609	OPEN		OPEN	OPEN	OPEN
C7610	OPEN		OPEN	OPEN	OPEN
C7611	OPEN		OPEN	OPEN	OPEN
C7612	OPEN	NRSA63J-0R0X	OPEN	OPEN	OPEN
C7613	OPEN	NRSA63J-0R0X	OPEN	OPEN	OPEN
C7614	OPEN		OPEN	OPEN	OPEN
C7615	OPEN		OPEN	OPEN	OPEN
C7617	OPEN		OPEN	OPEN	OPEN
C7618	OPEN		OPEN	OPEN	OPEN
C7619	OPEN		OPEN	OPEN	OPEN
C7621	OPEN		OPEN	OPEN	OPEN
C7622	OPEN		OPEN	OPEN	OPEN
R7692	10k	OPEN	10k	10k	10k

#2 DIFFERENCE LIST
(JPN MODEL/ US MODEL/ etc)

NOTE					
Selling Country	JPN	US	EU	UK	ASIA etc
ASSY NO.	SFL-0D002A (etc)	SFL-0D101A (etc)	SFL-0D201A (etc)	SFL-0D202A (etc)	SFL-0D301A (etc)
	OLLC0613-02 (etc)	OLLC0613-05 (etc)	OLLC0613-09 (etc)	OLLC0613-10 (etc)	OLLC0613-13 (etc)
IC7602	OPEN	24LC16B/SN	BR24L16F-WZ	BR24L16F-WZ	BR24L16F-WZ
R7602	OPEN	10k	10k	10k	10k
R7603	OPEN	10k	10k	10k	10k
C7616	OPEN	1/16 CB1	1/16 CB1	1/16 CB1	1/16 CB1

DIGITAL SIGNAL PWB ASS'Y (10/11)
LCA10428-62B (SFL-0D204A)

NOTE : Refer to the part list for the part number of IC7002.

- NOTE -

0 : NRSA63J-0R0X
NPN : 2SC3928A/QR/-X
PNP : 2SA1530A/QR/-X
0.1 : NCF31CZ-104X
DTA : DTA144EKA-X
DTC : DTC144EKA-X
*1 : NQR0450-001X
*2 : NQR0415-005X
*3 : NQR0498-001X
*4 : NQR0416-001X

SUB(CHASSIS)
CPU

CONNECTOR PWB ASS'Y
CN0001 (SHEET18)

#1 DIFFERENCE LIST
(JPN MODEL/ etc)

NOTE	JPN	US	EU	UK	ASIA etc
Setting Country ADJ	SFL-0D204A -02 (etc)	SFL-0D201A -05 (etc)	SFL-0D201A -09 (etc)	SFL-0D201A -10 (etc)	SFL-0D201A -13 (etc)
	OLLC0613B	OLLC0613B	OLLC0613B	OLLC0613B	OLLC0613B
BSRST R7030	0	OPEN	OPEN	OPEN	OPEN
KEY1 R7053	100	OPEN	OPEN	OPEN	OPEN
KEY2 R7055	100	OPEN	OPEN	OPEN	OPEN
BS_TXD R7012	0	OPEN	OPEN	OPEN	OPEN
BS_RXD R7013	0	OPEN	OPEN	OPEN	OPEN
GR_RST R7050	0	OPEN	OPEN	OPEN	OPEN
GRON R7036	0	OPEN	OPEN	OPEN	OPEN
REMO C7015	0.001	OPEN	OPEN	OPEN	OPEN
J7002	SHORT-JIG	OPEN	OPEN	OPEN	OPEN
R7125	0	OPEN	OPEN	OPEN	OPEN
BS_IR R7129	47	OPEN	OPEN	OPEN	OPEN
D7004	MA111-X	OPEN	OPEN	OPEN	OPEN
VFORMSel R7131	0	OPEN	OPEN	OPEN	OPEN
Q7401	2SK1374-X	OPEN	OPEN	OPEN	OPEN
Q7402	2SK1374-X	OPEN	OPEN	OPEN	OPEN
R7402	10k	OPEN	OPEN	OPEN	OPEN
R7403	10k	OPEN	OPEN	OPEN	OPEN
IC7302	M24C64-WMN6	OPEN	OPEN	OPEN	OPEN
R7311	1k	OPEN	OPEN	OPEN	OPEN
R7312	100	OPEN	OPEN	OPEN	OPEN
R7313	100	OPEN	OPEN	OPEN	OPEN
C7303	1000p	OPEN	OPEN	OPEN	OPEN
C7304	0.01	OPEN	OPEN	OPEN	OPEN
C7305	1/10	OPEN	OPEN	OPEN	OPEN
C7306	0.1	OPEN	OPEN	OPEN	OPEN
R7351	22	OPEN	OPEN	OPEN	OPEN
R7352	22	OPEN	OPEN	OPEN	OPEN
R7353	6.8k	OPEN	OPEN	OPEN	OPEN
R7354	6.8k	OPEN	OPEN	OPEN	OPEN
R7355	12k	OPEN	OPEN	OPEN	OPEN
R7356	12k	OPEN	OPEN	OPEN	OPEN
R7157	0	OPEN	OPEN	OPEN	OPEN
EXT_YS1-GND R7074	10k	OPEN	OPEN	OPEN	OPEN
EXT_YS2-GND R7075	10k	OPEN	OPEN	OPEN	OPEN
BSHS R7141	0	OPEN	OPEN	OPEN	OPEN
BSVS R7142	0	OPEN	OPEN	OPEN	OPEN
BS_OSD_SEL R7130	0	OPEN	OPEN	OPEN	OPEN
VOUTENB R7114	0	OPEN	OPEN	OPEN	OPEN
BS1-SCTRL R7032	0	OPEN	OPEN	OPEN	OPEN

#2 DIFFERENCE LIST
(EU,UK MODEL/ etc)

NOTE	JPN	US	EU	UK	ASIA etc
Setting Country ADJ	SFL-0D204A -02 (etc)	SFL-0D201A -05 (etc)	SFL-0D201A -09 (etc)	SFL-0D201A -10 (etc)	SFL-0D201A -13 (etc)
	OLLC0613B	OLLC0613B	OLLC0613B	OLLC0613B	OLLC0613B
Q7201	OPEN	OPEN	PNP	PNP	OPEN
Q7202	OPEN	OPEN	NPN	NPN	OPEN
Q7203	OPEN	OPEN	NPN	NPN	OPEN
Q7204	OPEN	OPEN	NPN	NPN	OPEN
Q7205	OPEN	OPEN	NPN	NPN	OPEN
D7201	OPEN	OPEN	MA111-X	MA111-X	OPEN
D7202	OPEN	OPEN	OPEN	OPEN	OPEN
C7201	OPEN	OPEN	1/10	1/10	OPEN
C7202	OPEN	OPEN	0.1/16	0.1/16	OPEN
R7202	OPEN	OPEN	27k	27k	OPEN
R7203	OPEN	OPEN	220	220	OPEN
R7204	OPEN	OPEN	10k	10k	OPEN
R7205	OPEN	OPEN	1k	1k	OPEN
R7206	OPEN	OPEN	10k	10k	OPEN
R7207	OPEN	OPEN	10k	10k	OPEN
R7208	OPEN	OPEN	1k	1k	OPEN
R7209	OPEN	OPEN	1.5k	1.5k	OPEN
R7210	OPEN	OPEN	10k	10k	OPEN
R7211	OPEN	OPEN	10k	10k	OPEN
R7212	OPEN	OPEN	47k	47k	OPEN
R7213	OPEN	OPEN	1k	1k	OPEN
EXT_YS1 R7078	OPEN	OPEN	0	0	OPEN
EXT_YS2 R7079	OPEN	OPEN	0	0	OPEN

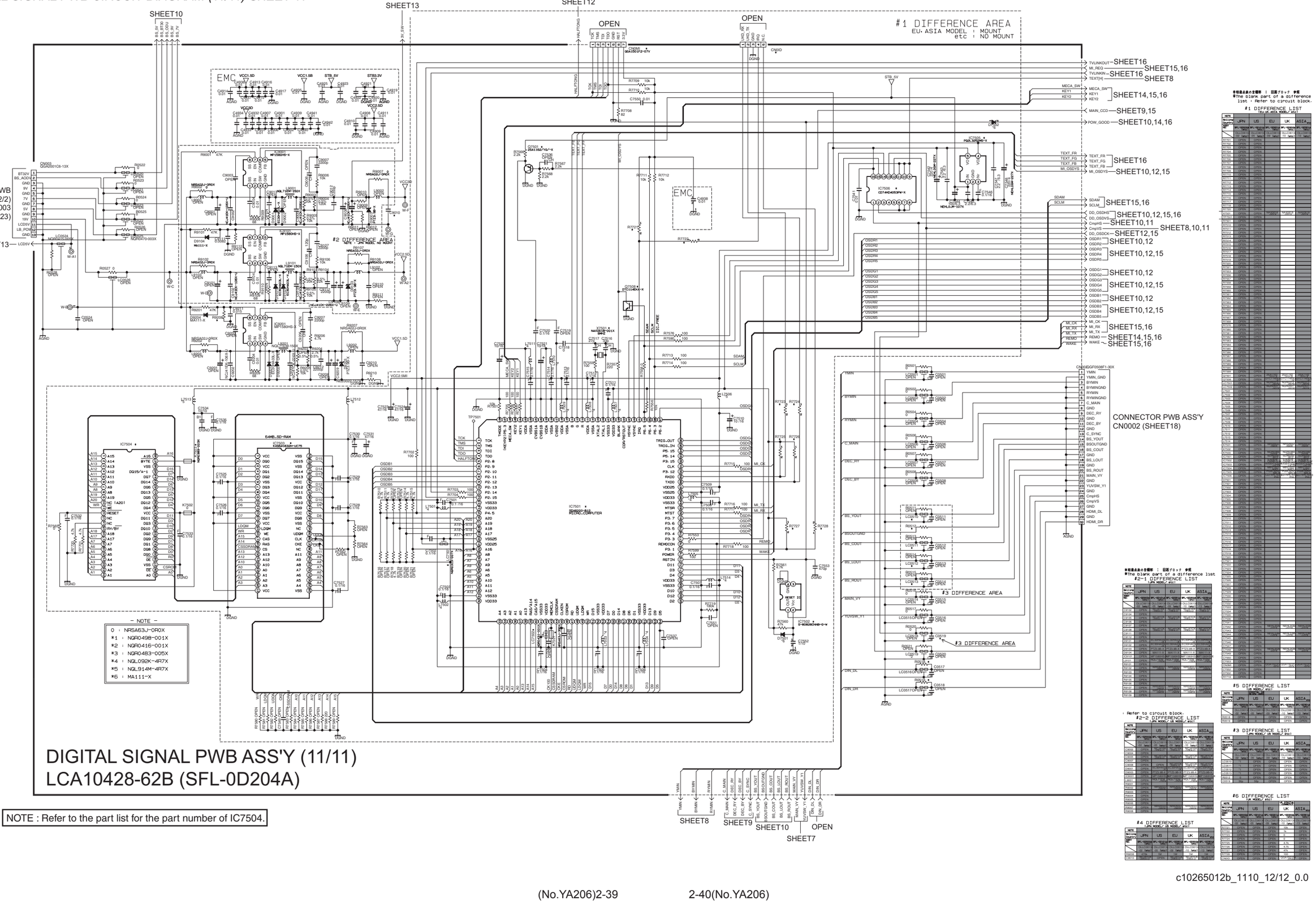
#3 DIFFERENCE LIST
(US MODEL/ etc)

NOTE	JPN	US	EU	UK	ASIA etc
Setting Country ADJ	SFL-0D204A -02 (etc)	SFL-0D201A -05 (etc)	SFL-0D201A -09 (etc)	SFL-0D201A -10 (etc)	SFL-0D201A -13 (etc)
	OLLC0613B	OLLC0613B	OLLC0613B	OLLC0613B	OLLC0613B
DIN_INT R7122	OPEN	0	OPEN	OPEN	OPEN
DIGI_PHOT R7160	OPEN	0	OPEN	OPEN	OPEN
DIGI_LINK R7108	100	1k	100	100	100
REMO R7063	150k	OPEN	150k	150k	150k

#4 DIFFERENCE LIST
(JPN MODEL/ US MODEL/ etc)

NOTE	JPN	US	EU	UK	ASIA etc
Setting Country ADJ	SFL-0D204A -02 (etc)	SFL-0D201A -05 (etc)	SFL-0D201A -09 (etc)	SFL-0D201A -10 (etc)	SFL-0D201A -13 (etc)
	OLLC0613B	OLLC0613B	OLLC0613B	OLLC0613B	OLLC0613B
KEY1-GND R7151	OPEN	OPEN	27k	27k	27k
KEY2-GND R7152	OPEN	OPEN	27k	27k	27k
AF1 R7060	33k	22k	47k	47k	47k
AF1-GND R7061	150k	33k	100k	100k	100k
AF1-GND C7012	1/10	0.015	0.1/16	0.1/16	0.1/16
AF18 R7058	1k	22k	1k	1k	1k
AF12-GND R7059	OPEN	33k	33k	33k	33k
DsyncSW1 R7037	0	0	OPEN	OPEN	OPEN
DsyncSW1 R7133	0	0	OPEN	OPEN	OPEN
TEXT_FB LC7001	NC(0ohm)	NC(0ohm)	OPEN	OPEN	OPEN
TEXT_FG LC7002	NC(0ohm)	NC(0ohm)	OPEN	OPEN	OPEN
TEXT_FR LC7003	NC(0ohm)	NC(0ohm)	OPEN	OPEN	OPEN
TEXT_FR R7144	OPEN	OPEN	NC(0ohm)	NC(0ohm)	NC(0ohm)
TEXT_FG R7145	OPEN	OPEN	NC(0ohm)	NC(0ohm)	NC(0ohm)
TEXT_FB R7146	OPEN	OPEN	NC(0ohm)	NC(0ohm)	NC(0ohm)
AC_2ND-GND C7203	0.047	0.047	0.1/16	0.1/16	0.1/16
MECA_SW-GND R7040	OPEN	OPEN	10k	10k	10k

DIGITAL SIGNAL PWB CIRCUIT DIAGRAM (11/11) SHEET 17

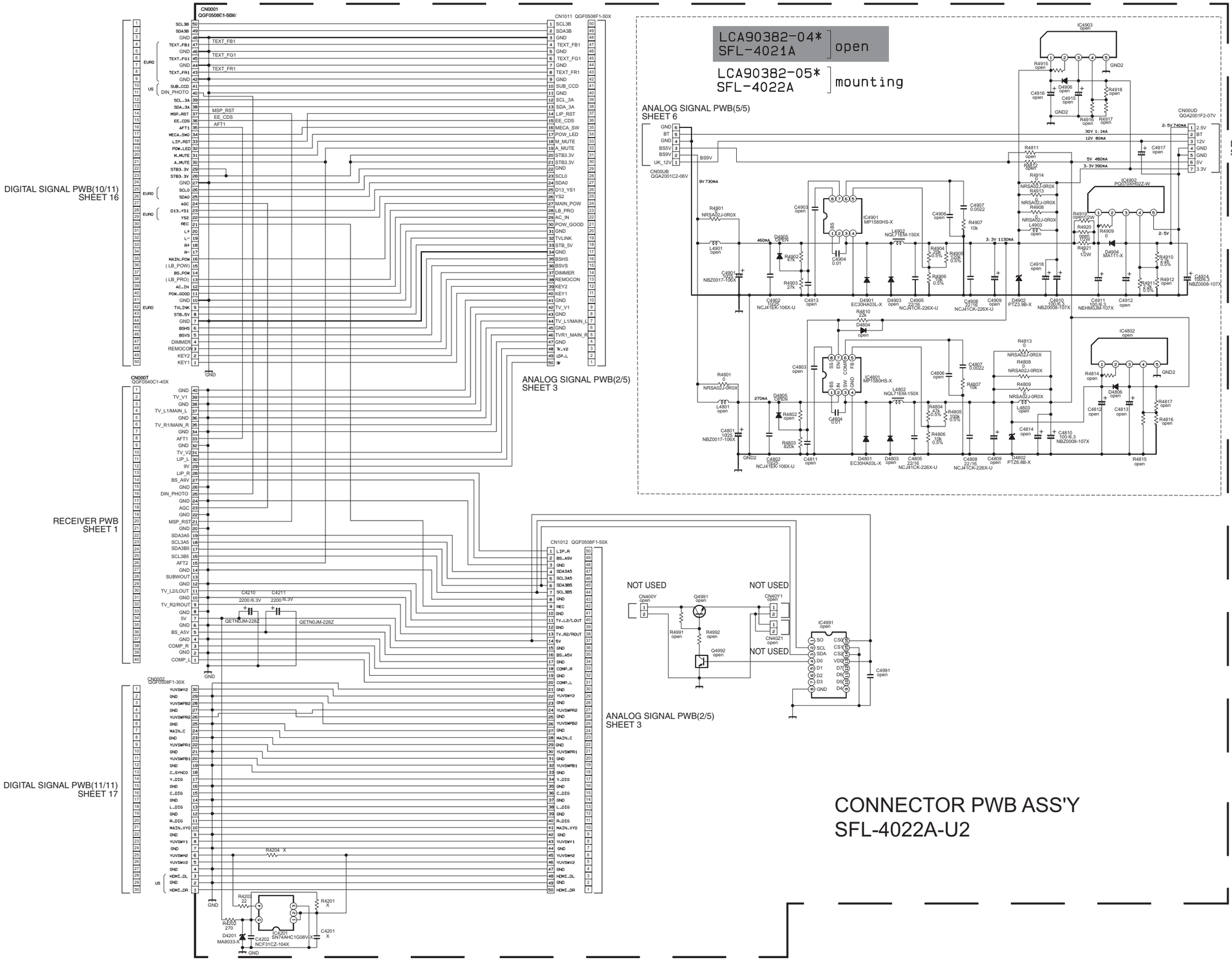


DIGITAL SIGNAL PWB ASS'Y (11/11)
LCA10428-62B (SFL-0D204A)

NOTE : Refer to the part list for the part number of IC7504.

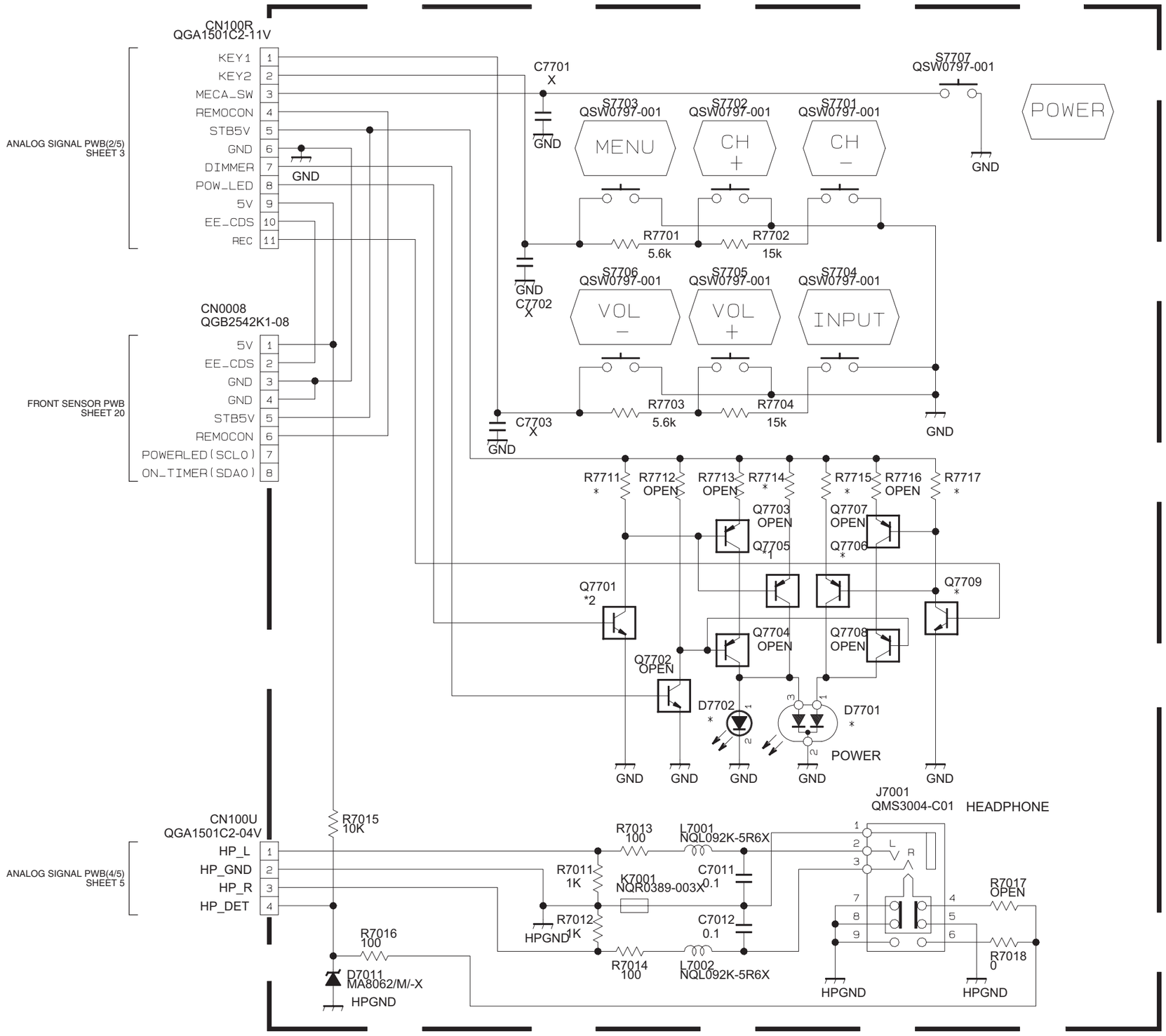
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CONNECTOR PWB CIRCUIT DIAGRAM SHEET 18



CONNECTOR PWB ASS'Y
SFL-4022A-U2

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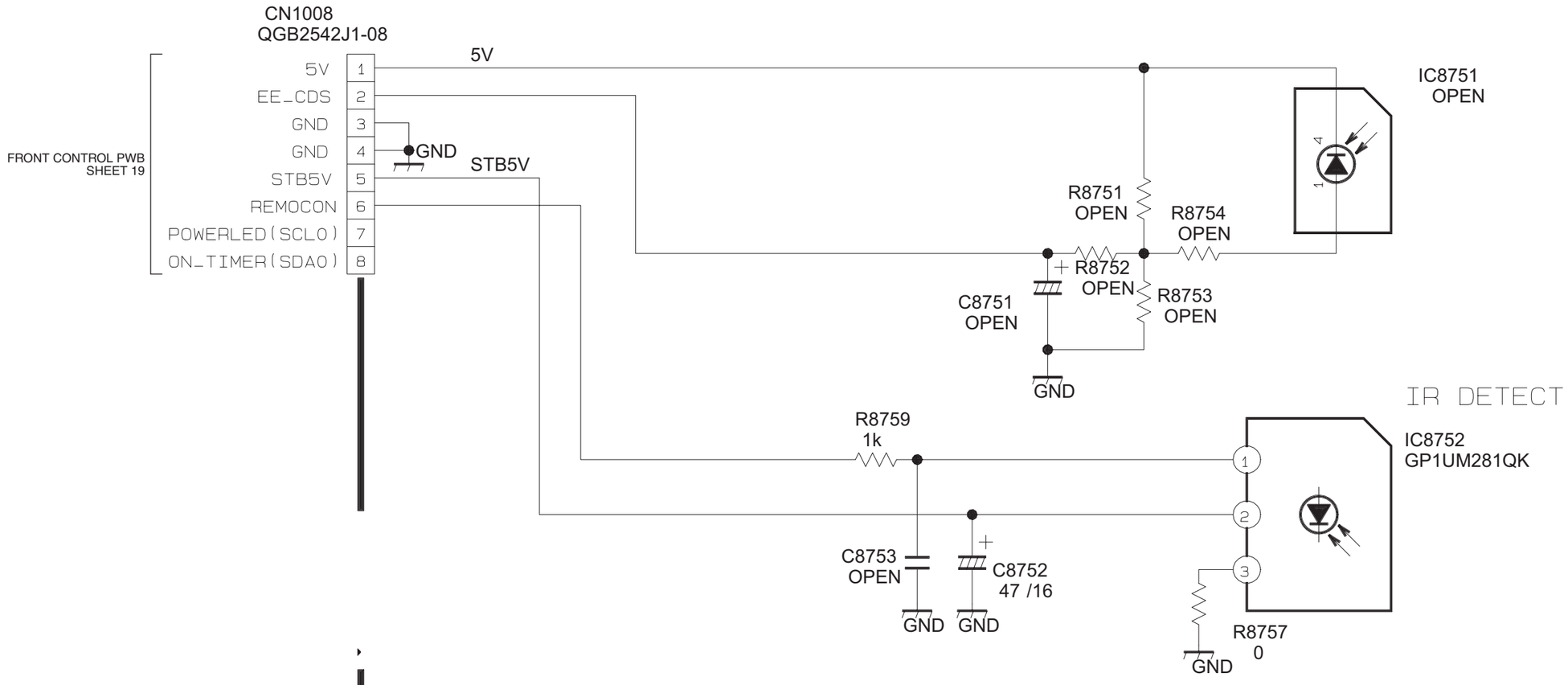


FRONT CONTROL PWB ASS'Y
SFL-7022A-U2

ASS'Y No.	LCA90351 -15*	LCA90351 -17*
	SFL-7021A	SFL-7022A
	OLLC06574	OLLC07108
D7701	OPEN	SML1216W
D7702	HLMPNS30 J00-T16	OPEN
Q7706	OPEN	UN2212-X
Q7709	OPEN	UN2212-X
R7711	1.5K	10K
R7714	680	1.5K
R7715	OPEN	1.5K
R7717	OPEN	10K

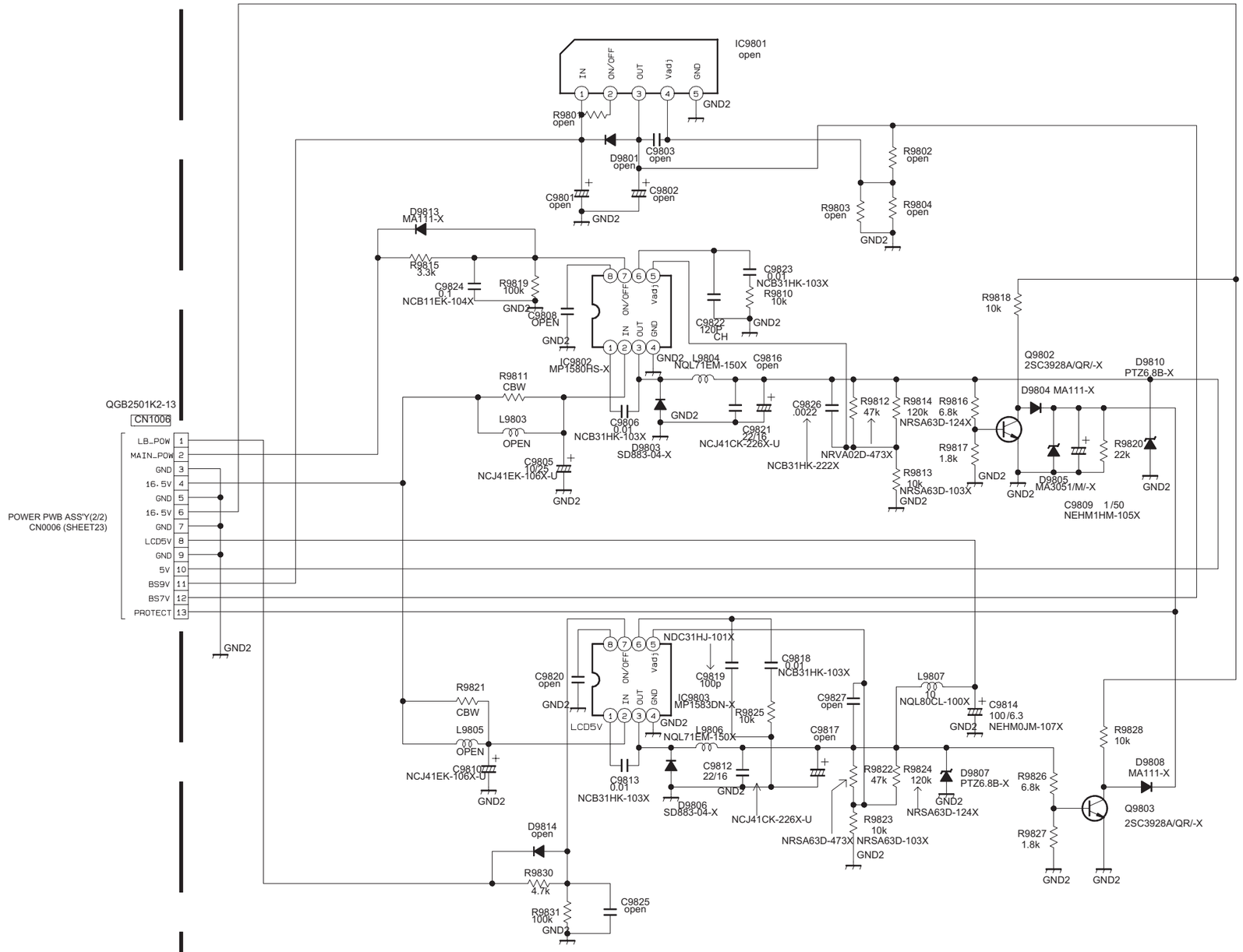
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FRONT SENSOR PWB ASS'Y
SFL-8022A-U2

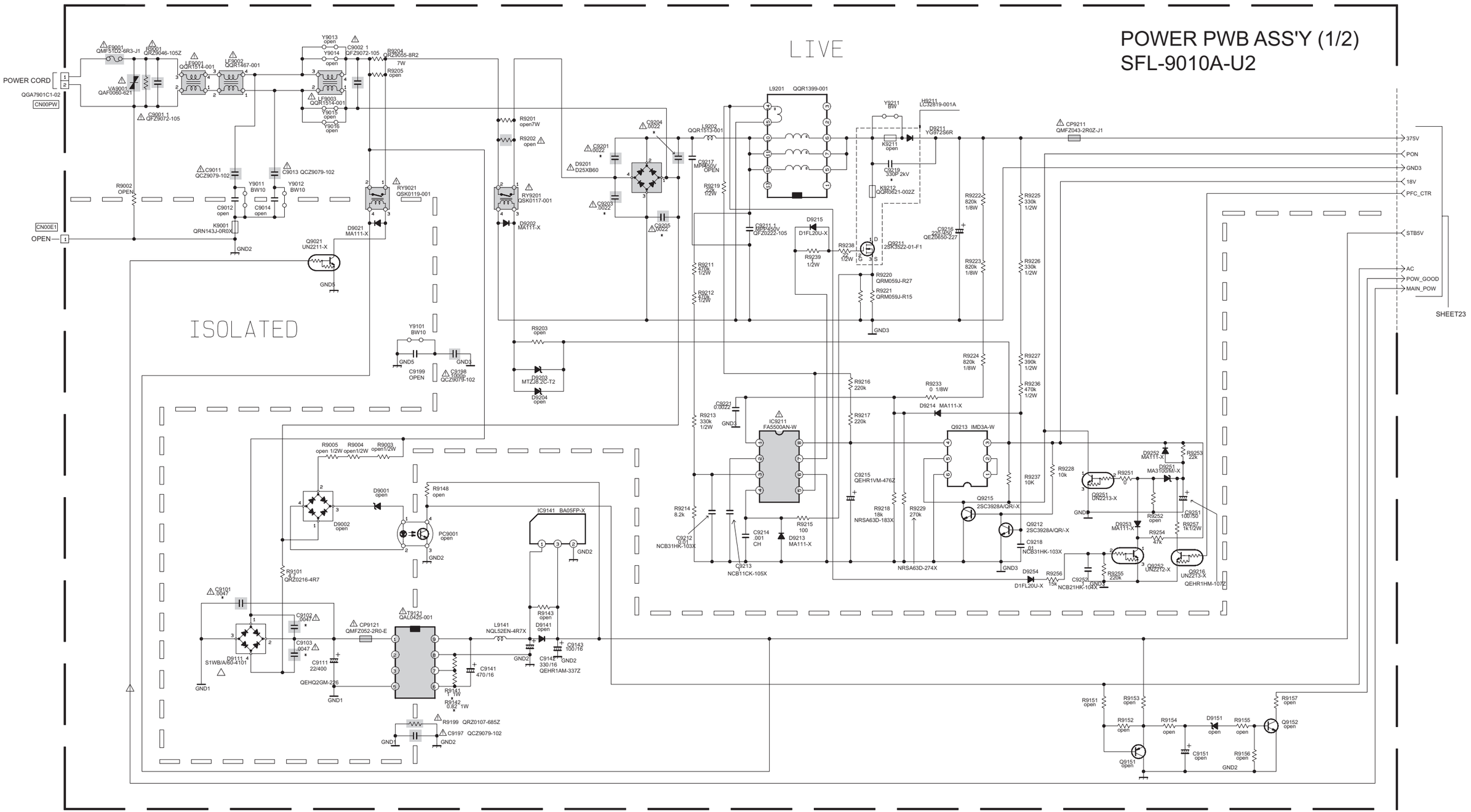


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REGULATOR PWB ASS'Y
SFL-9110A-U2



POWER PWB CIRCUIT DIAGRAM (1/2) SHEET 22



DIFFERENCE LIST

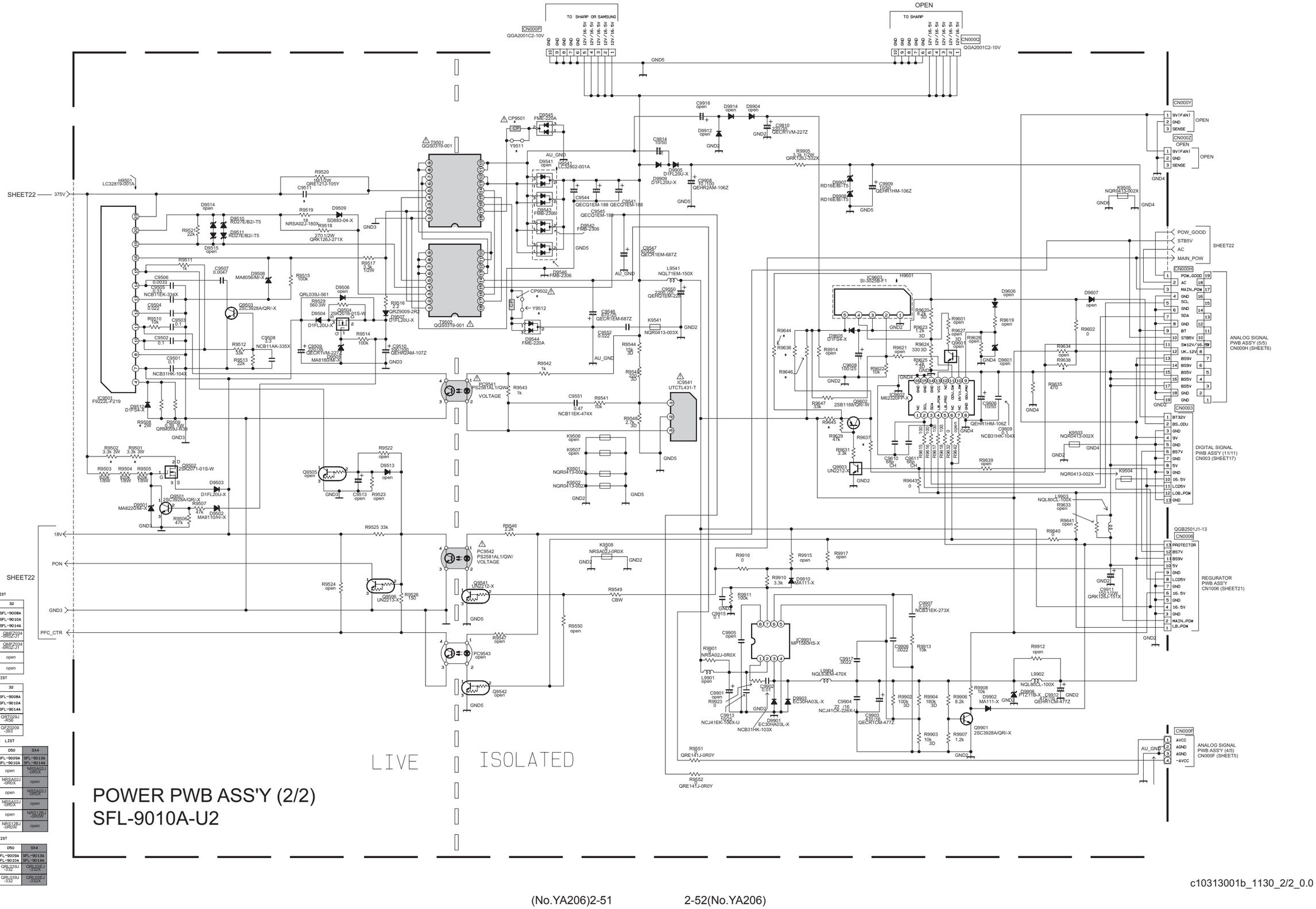
NOTE	C50	D50	SX4
	SFL-9007A SFL-9008A	SFL-9009A SFL-9010A	SFL-9013A SFL-9014A
R9141	QRX01GJ -1R0	QRX01GJ -1R0	QRT01EJ -1R0X
R9142	QRX01GJ -R82	QRX01GJ -R82	QRT01EJ -R82X
C9101	QCZ9078 -472	QCZ9078 -472	QCZ9082 -4722
C9102	QCZ9078 -472	QCZ9078 -472	QCZ9082 -4722
C9103	QCZ9078 -472	QCZ9078 -472	QCZ9082 -4722

DIFFERENCE LIST

NOTE	C50	D50	SX4
	SFL-9007A SFL-9008A	SFL-9009A SFL-9010A	SFL-9013A SFL-9014A
C9201	QCZ9078 -222	QCZ9078 -222	QCZ9082 -2222
C2903	QCZ9078 -222	QCZ9078 -222	QCZ9082 -2222
C9204	QCZ9078 -222	QCZ9078 -222	QCZ9082 -2222
C9205	QCZ9078 -222	QCZ9078 -222	QCZ9082 -2222
C9219	QCZ0340 -331	QCZ0340 -331	QCZ0354 -331Z

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LCD PANEL UNIT



POWER PWB ASS'Y (2/2)
SFL-9010A-U2

DIFFERENCE LIST

NOTE	J26	J32
	SFL-9007A SFL-9009A SFL-9013A	SFL-9008A SFL-9010A SFL-9014A
CP9501	open	QMEZ034 -SR0CJ
CP9502	open	QMEZ034 -SR0CJ
Y9511	QUY360 -100H	open
Y9512	QUY360 -160H	open

DIFFERENCE LIST

NOTE	J26	J32
	SFL-9007A SFL-9009A SFL-9013A	SFL-9008A SFL-9010A SFL-9014A
R9508	QRT029J -2R7	QRT029J -R56
C9511	QFZ0209 -473	QFZ0209 -393

DIFFERENCE LIST

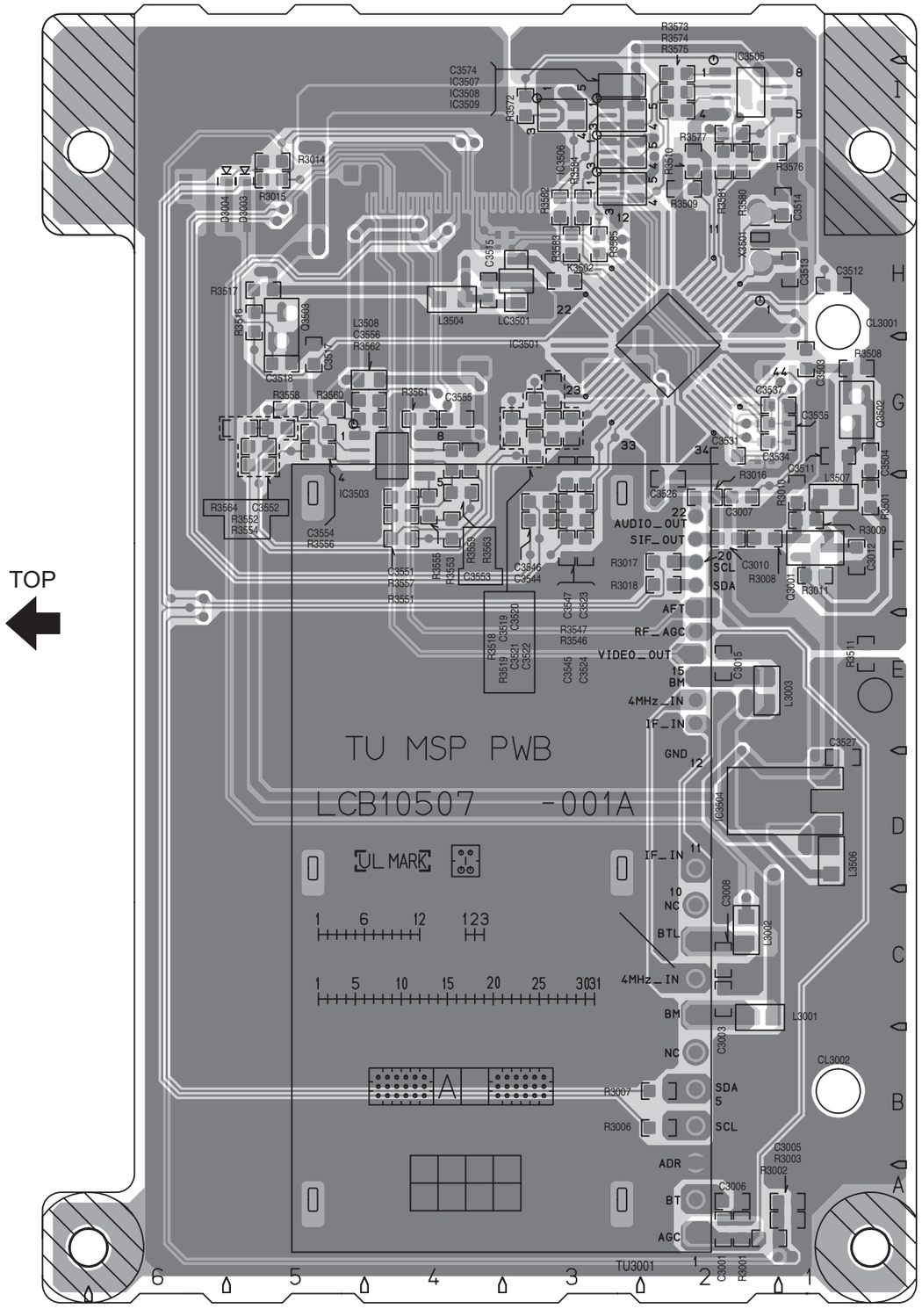
NOTE	C50	D50	SX4
	SFL-9007A SFL-9009A SFL-9008A	SFL-9009A SFL-9010A	SFL-9013A SFL-9014A
R9636	NRSA02J -0R0X	open	NRSA02J -0R0X
R9637	open	NRSA02J -0R0X	open
R9638	NRSA02J -0R0X	open	NRSA02J -0R0X
R9644	open	NRSA02J -0R0X	open
R9645	NRS12BJ -0R0W	open	NRS12BJ -0R0W
R9646	open	NRS12BJ -0R0W	open

DIFFERENCE LIST

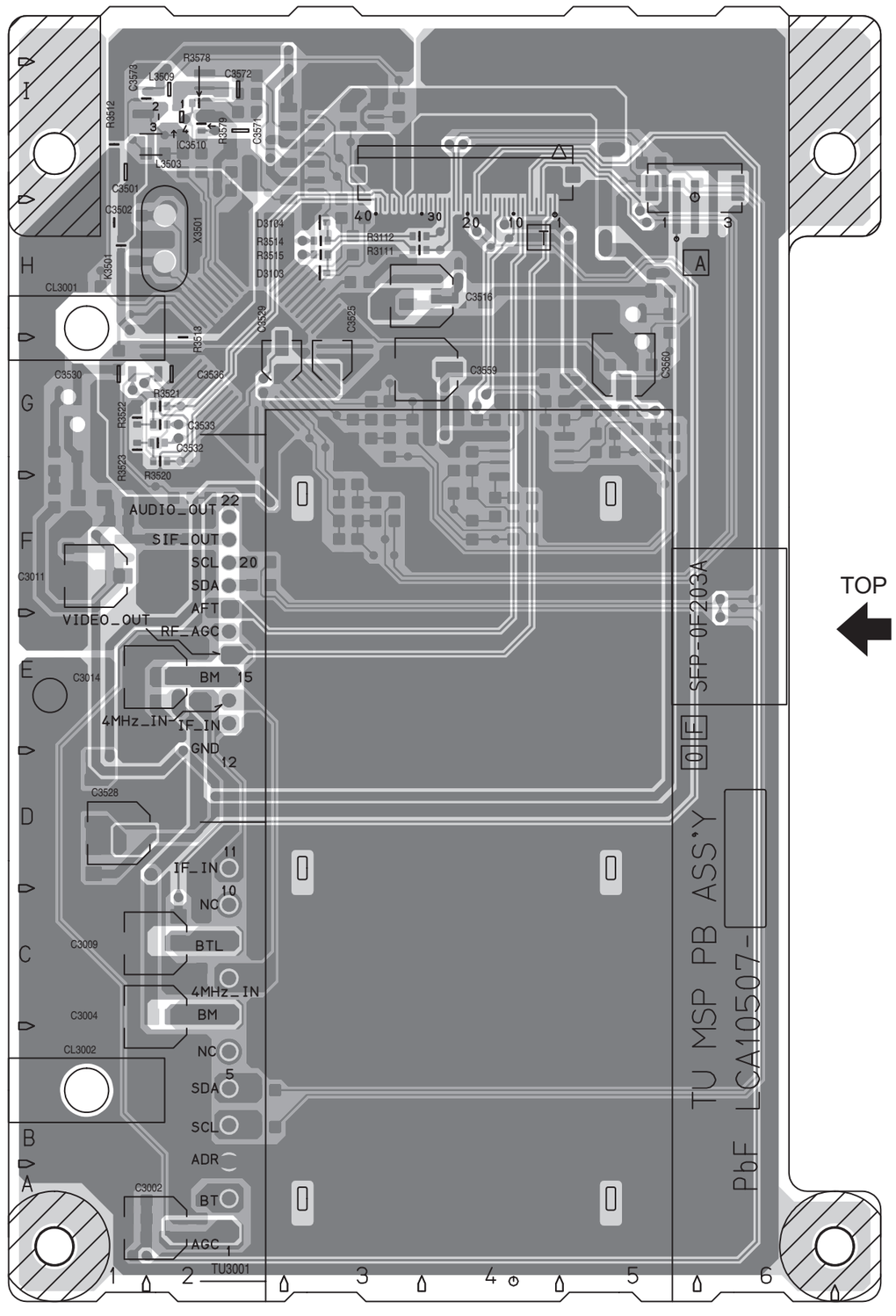
NOTE	C50	D50	SX4
	SFL-9007A SFL-9007A	SFL-9009A SFL-9010A	SFL-9013A SFL-9014A
R9501	QRL039J -332	QRL039J -332	QRL03EJ -332X
R9502	QRL039J -332	QRL039J -332	QRL03EJ -332X

PATTERN DIAGRAMS

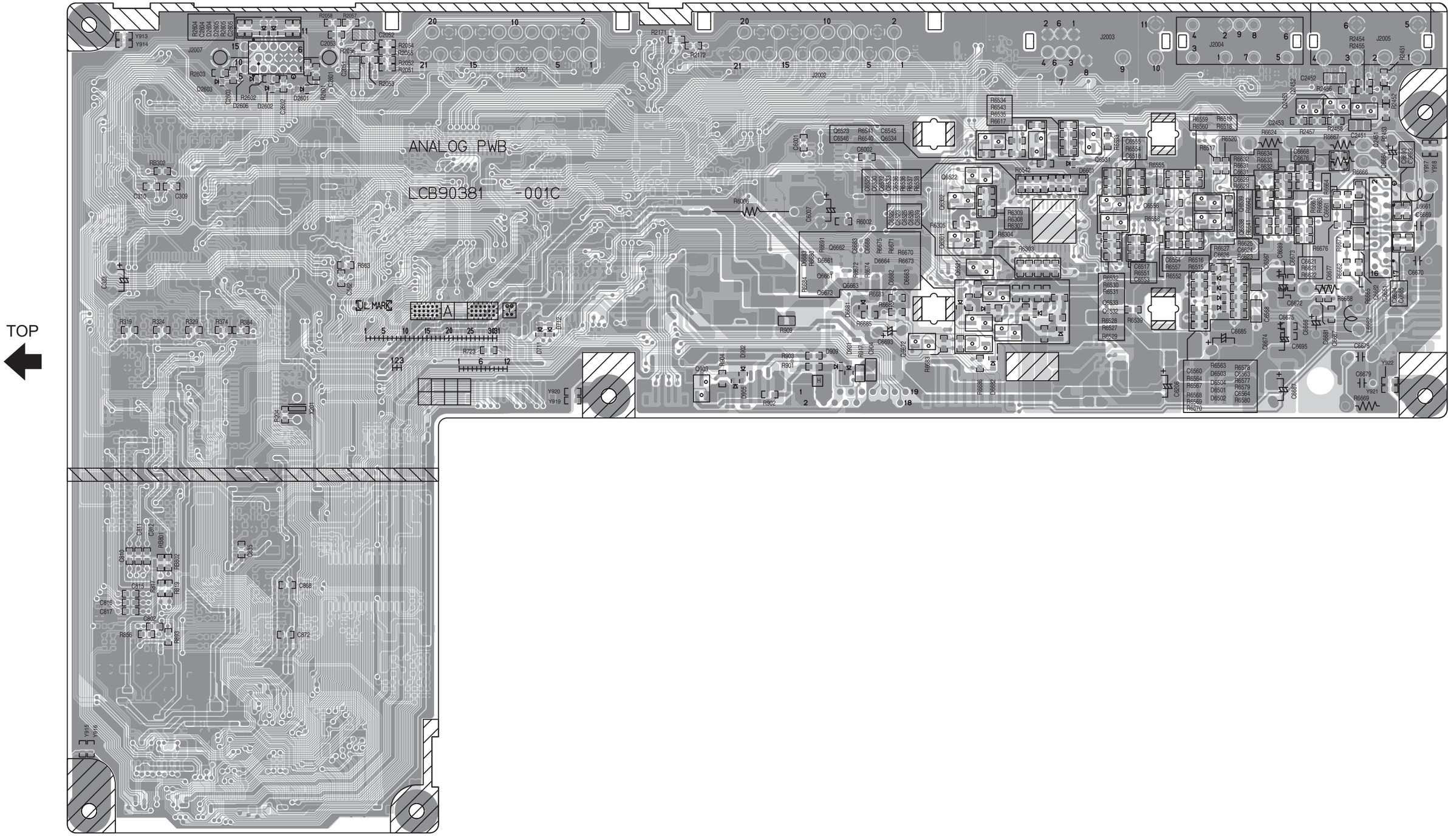
RECEIVER PWB PATTERN [SOLDER SIDE]



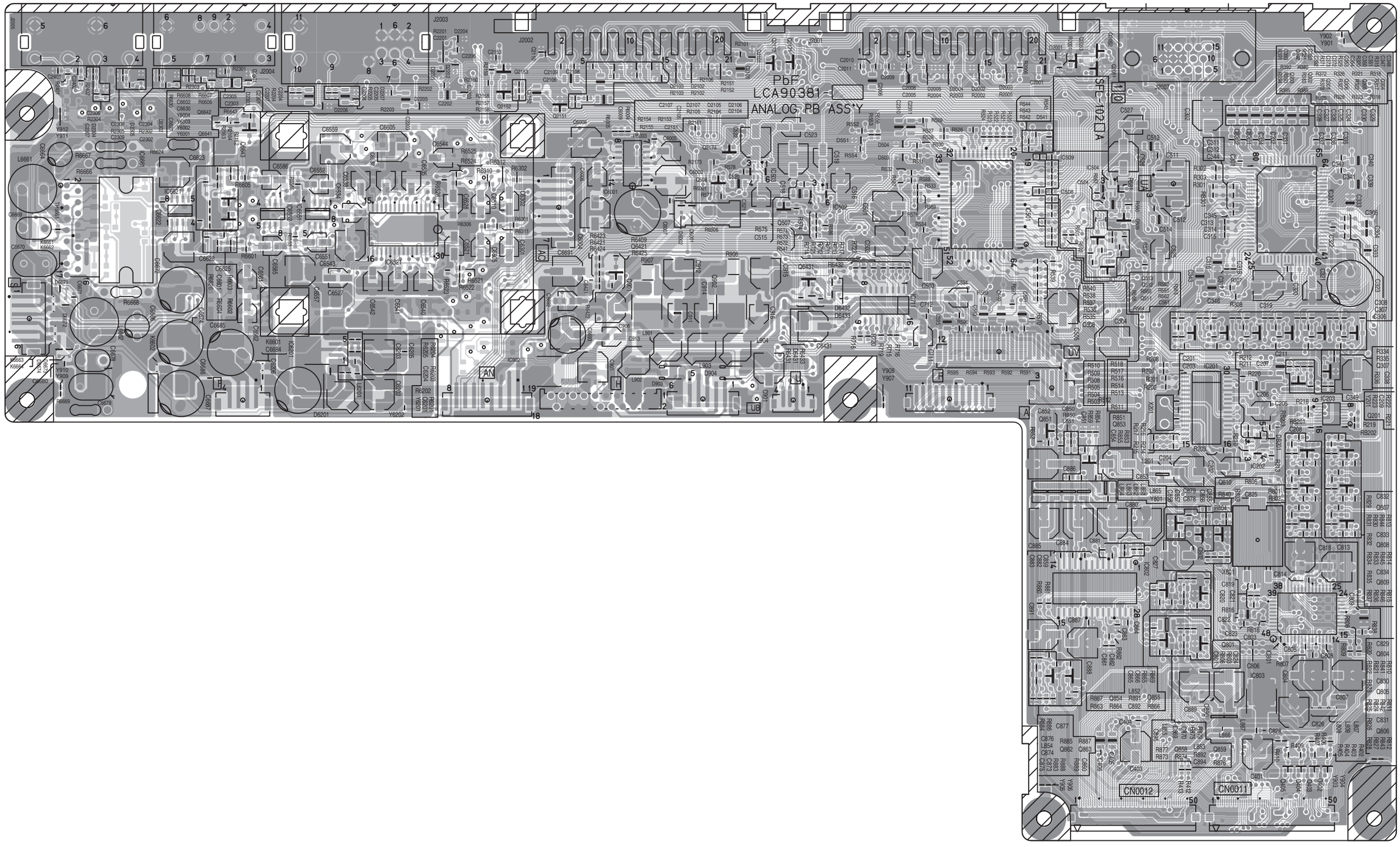
RECEIVER PWB PATTERN [PARTS SIDE]



ANALOG SIGNAL PWB PATTERN [SOLDER SIDE]

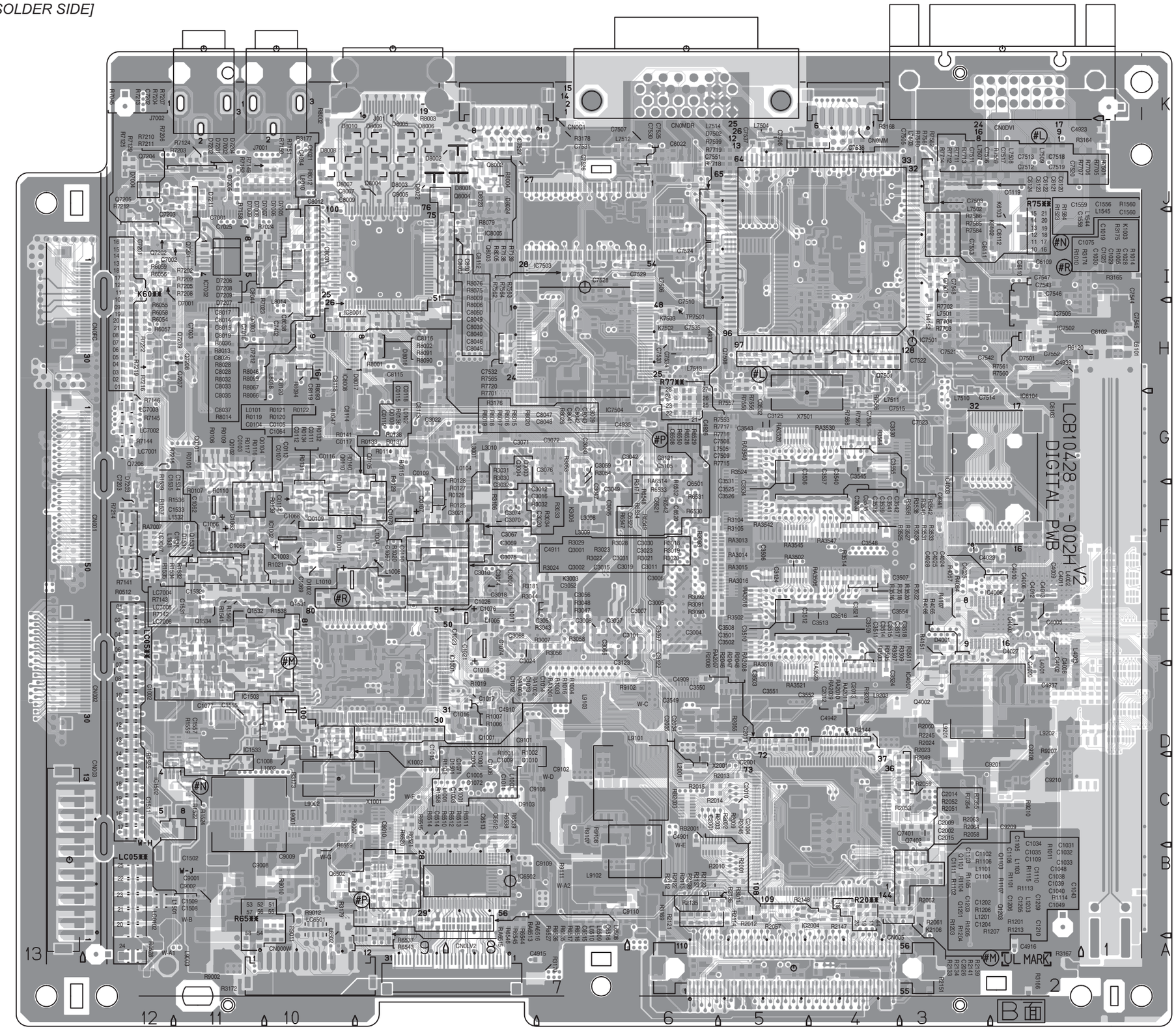


ANALOG SIGNAL PWB PATTERN [PARTS SIDE]

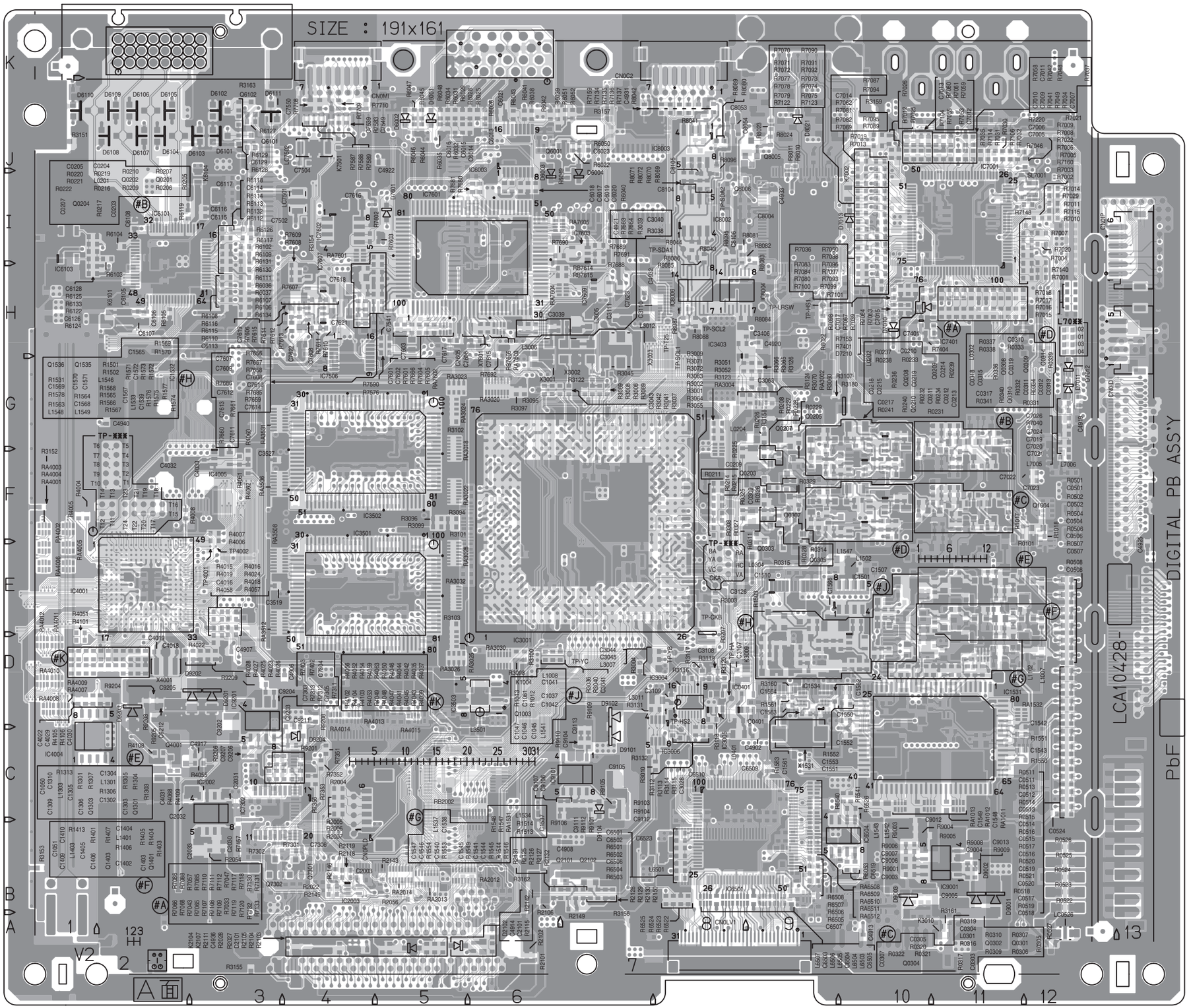


DIGITAL SIGNAL PWB PATTERN [SOLDER SIDE]

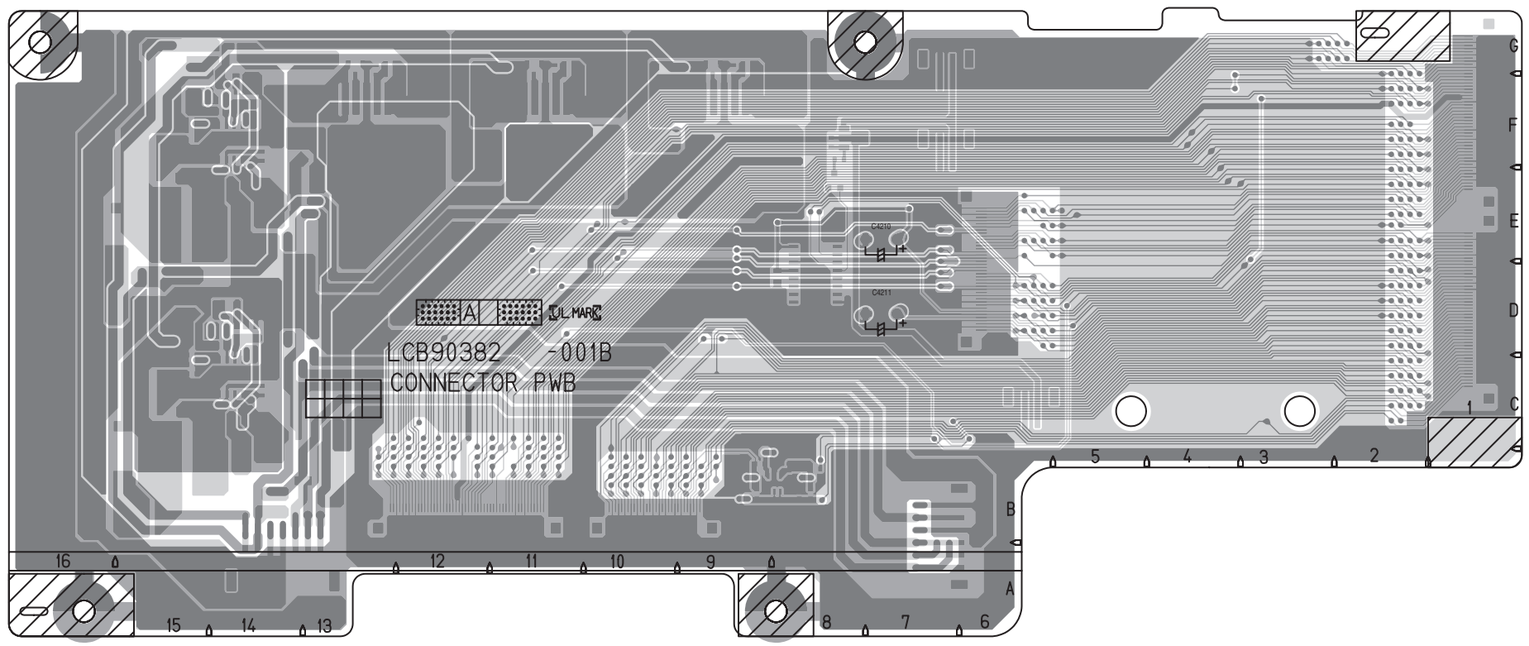
TOP



DIGITAL SIGNAL PWB PATTERN [PARTS SIDE]



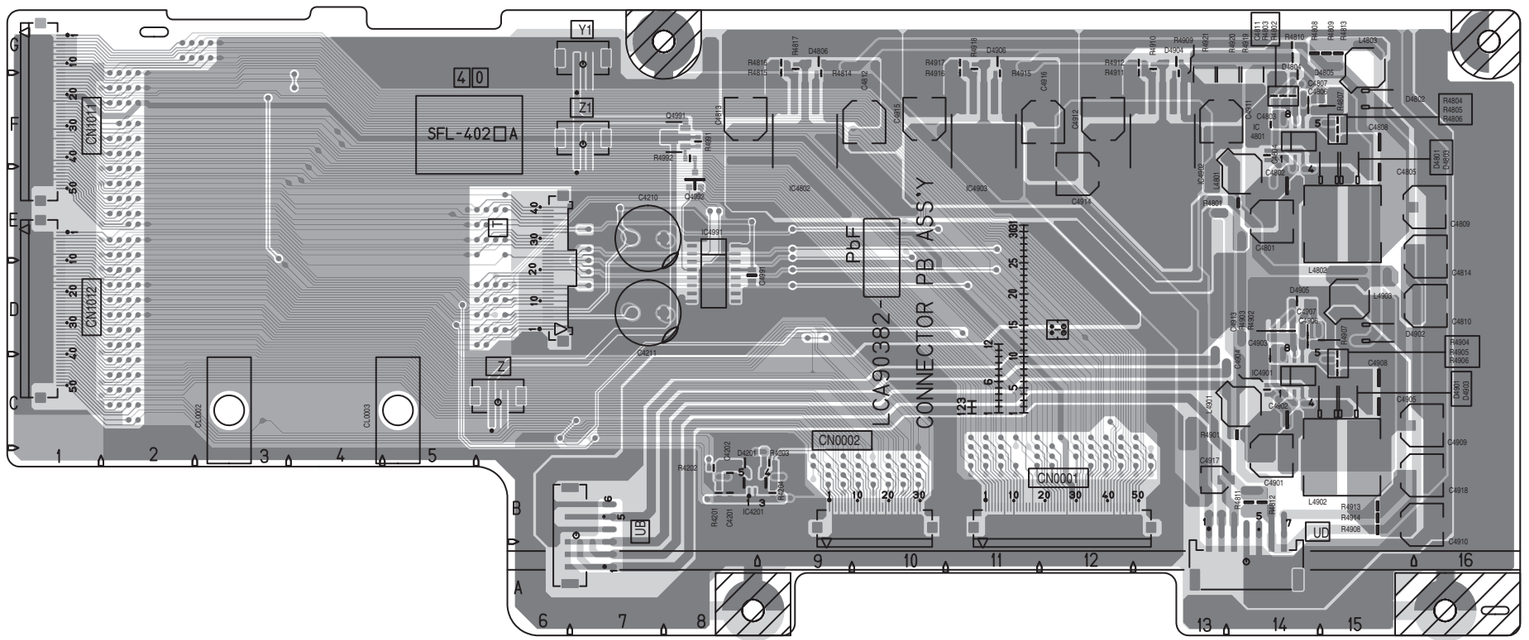
CONNECTOR PWB PATTERN [SOLDER SIDE]



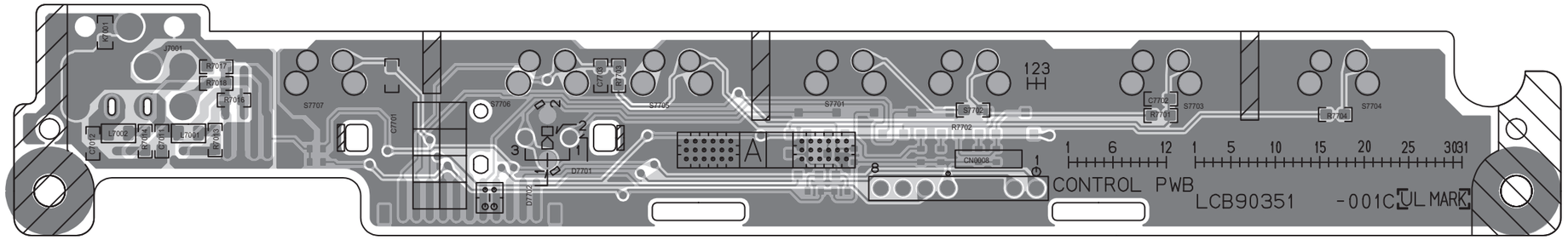
TOP

CONNECTOR PWB PATTERN [PARTS SIDE]

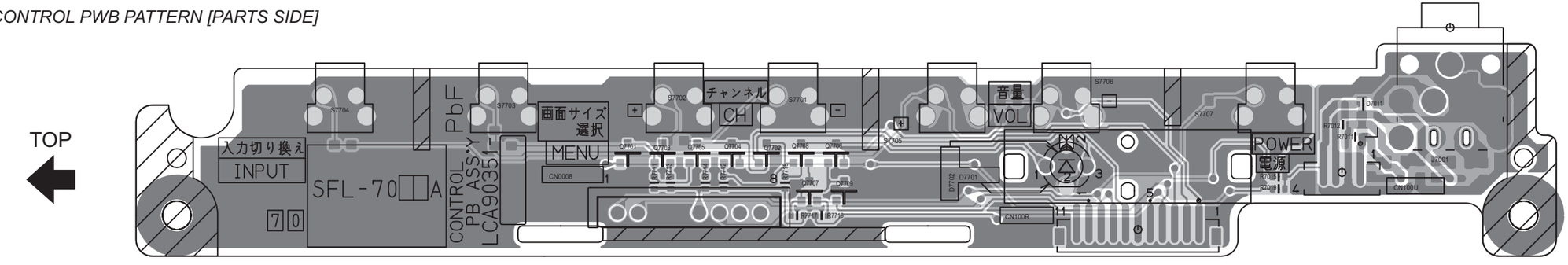
TOP



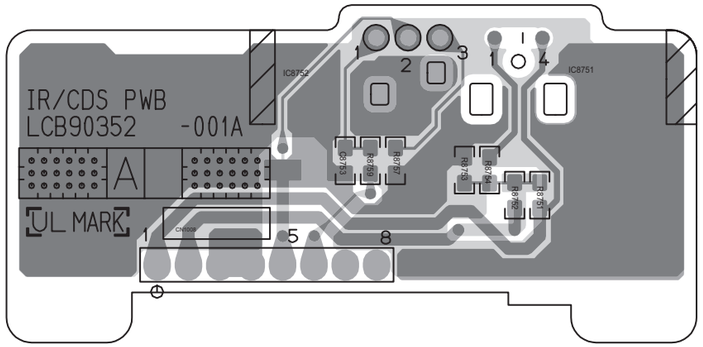
FRONT CONTROL PWB PATTERN [SOLDER SIDE]



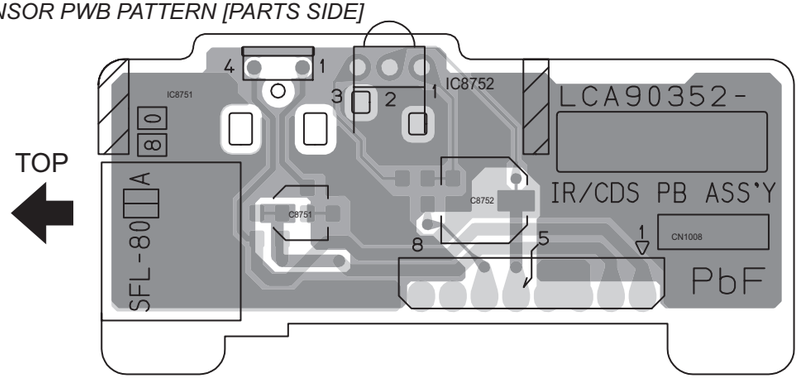
FRONT CONTROL PWB PATTERN [PARTS SIDE]



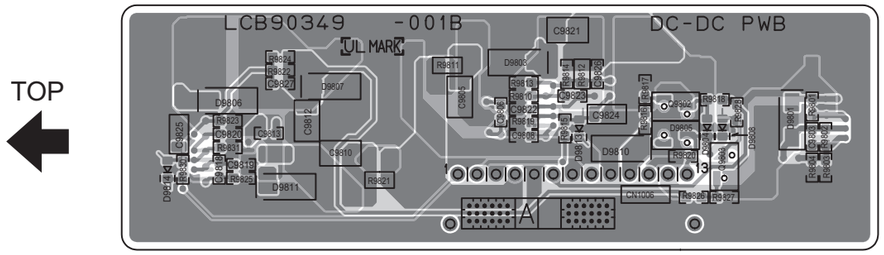
FRONT SENSOR PWB PATTERN [SOLDER SIDE]



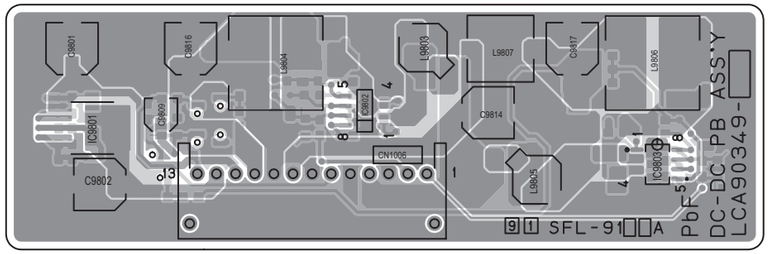
FRONT SENSOR PWB PATTERN [PARTS SIDE]



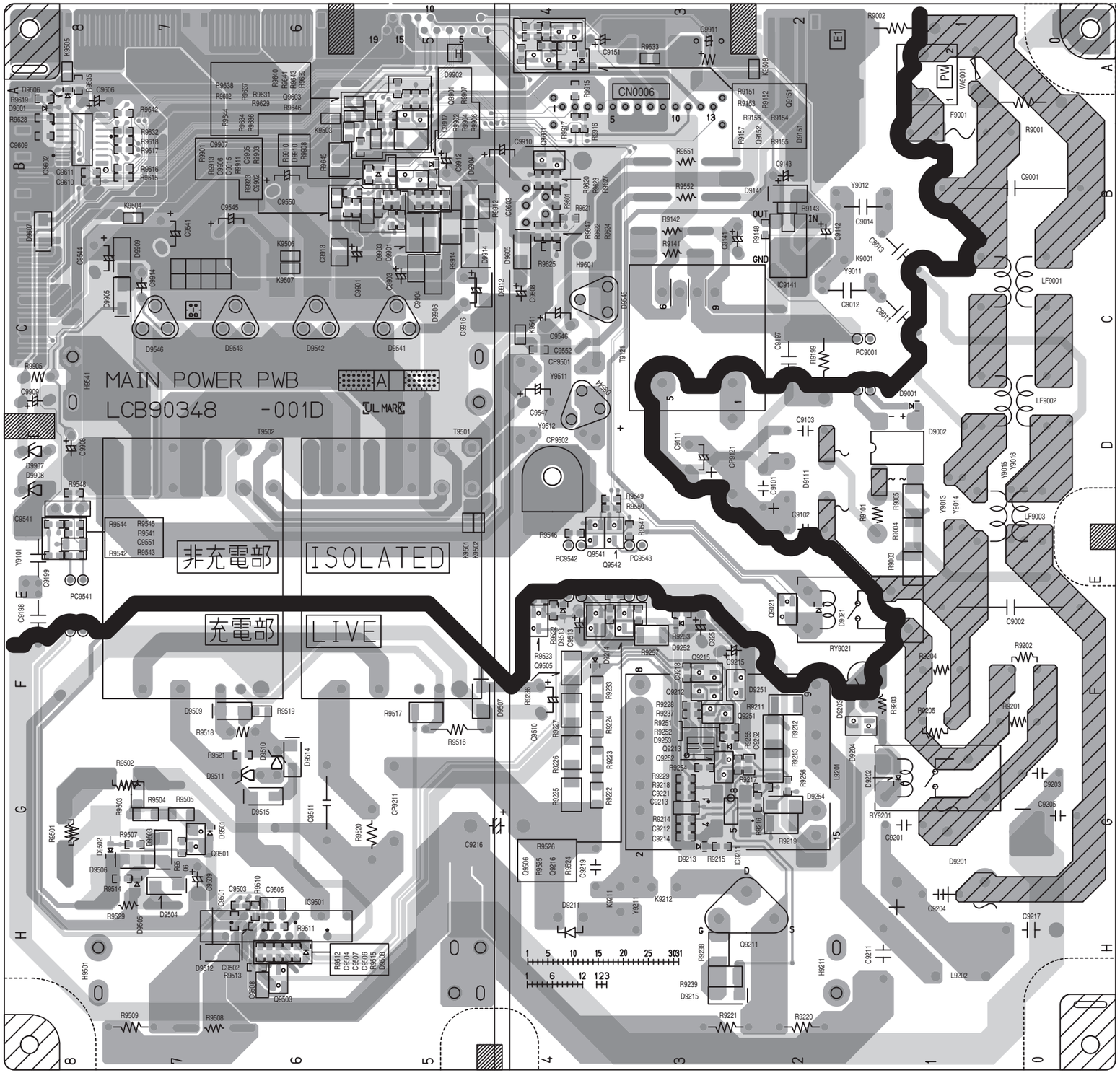
REGULATOR PWB PATTERN [SOLDER SIDE]



REGULATOR PWB PATTERN [PARTS SIDE]

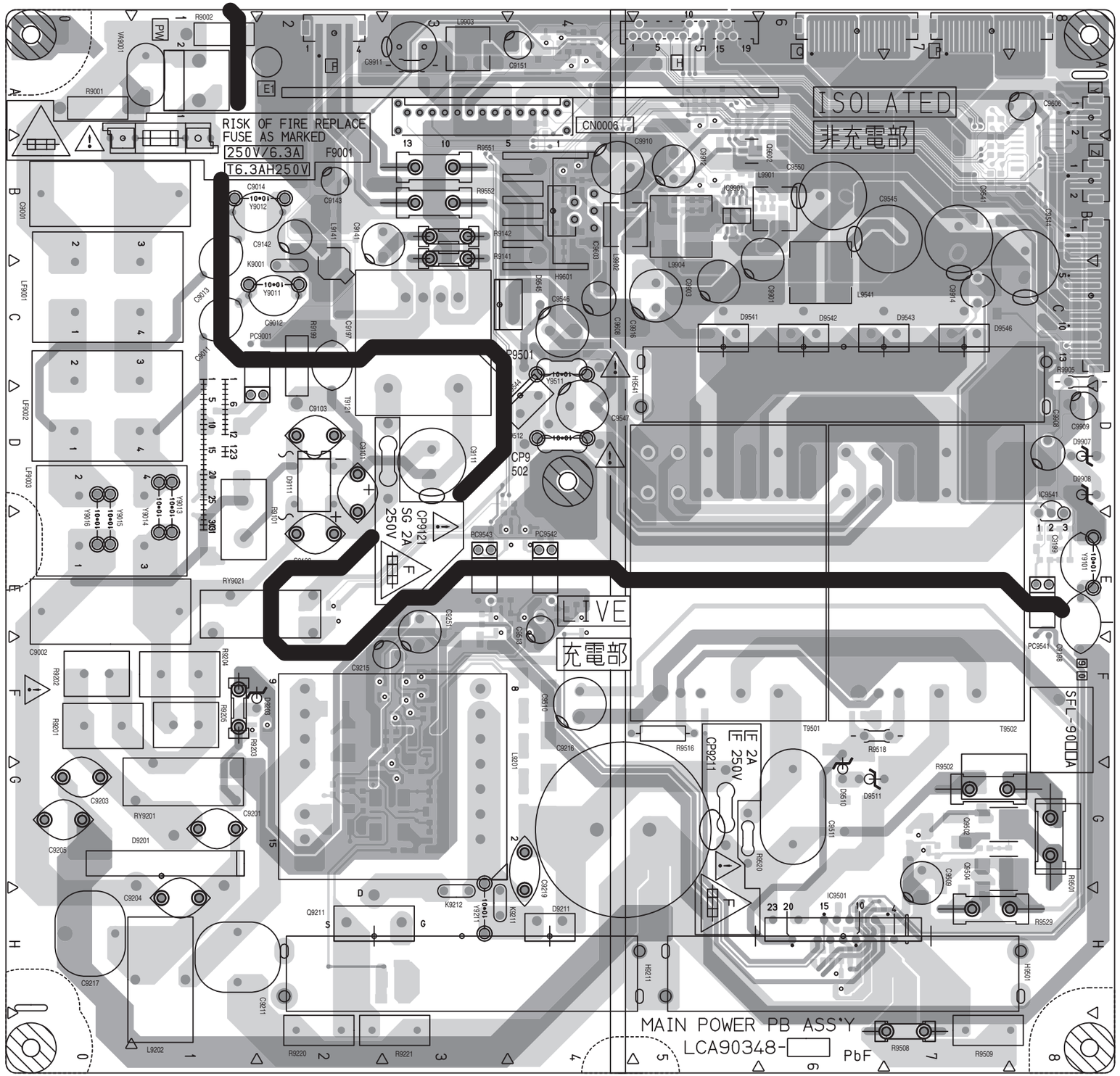


POWER PWB PATTERN [SOLDER SIDE]



POWER PWB PATTERN [PARTS SIDE]

TOP



VOLTAGE CHARTS

<RECEIVER>

[P.2-7 - P.2-8]

MODE PIN NO.	DC (V)
IC3501	
1	5.0
2	1.5
3	1.5
4	0
5	2.4
6	2.2
7	0
8	0
9	0
10	2.5
11	5.0
12	5.0
13	5.0
14	2.2
15	2.5
16	0.7
17	0.7
18	0
19	5.0
20	0
21	0
22	5.0
23	0
24	0
25	0
26	2.0
27	2.1
28	0
29	0
30	3.3
31	3.4
32	0
33	8.0
34	6.3
35	0
36	3.8
37	3.8
38	3.7
39	0
40	3.6
41	3.8
42	2.6
43	3.8
44	0
IC3503	
1	4.5
2	4.5
3	4.4
4	0
5	4.5
6	0
7	4.5
8	9.0
IC3504	
1	9.0
2	0
3	8.0
IC3505	
1	0.3
2	1.3
3	1.1
4	0
5	0
6	0
7	0.3
8	2.5
IC3506	
1	0
2	0.3
3	0
4	0.7
5	5.1
IC3507	
1	0
2	0.7
3	0
4	0.2
5	2.5
IC3508	
1	0
2	2.5
3	0
4	1.1
5	2.5
IC3509	
1	0
2	2.0
3	0
4	1.0
5	2.5
IC3510	
1	2.5
2	0
3	5.0
4	5.0

MODE PIN NO.	DC (V)
Q3001	
E	2.2
C	9.0
B	2.8
Q3502	
E	0
C	9.0
B	0
Q3503	
E	0
C	5.0
B	0
TU3001	
1	3.7
2	2.7
3	0
4	5.3
5	5.2
6	0
7	4.9
8	0
9	30.6
10	0
11	3.0
12	0
13	3.0
14	0
15	5.0
16	1.6
17	3.6
18	4.2
19	5.3
20	5.3
21	2.0
22	1.0

<ANALOG SIGNAL>

[P.2-9 - P.2-10]

MODE PIN NO.	DC (V)
IC501	
1	4.0
2	4.5
3	4.4
4	4.5
5	4.4
6	3.5
7	3.5
8	4.4
9	4.5
10	4.4
11	4.5
12	4.5
13	0
14	3.5
15	4.0
16	4.5
17	4.0
18	4.5
19	4.4
20	0
21	0
22	4.0
23	4.5
24	4.0
25	4.5
26	4.4
27	0.2
28	5.0
29	4.5
30	4.0
31	4.58
32	9.0
33	4.9
34	5.0
35	0
36	0
37	4.4
38	4.5
39	0
40	4.5
41	4.4
42	9.1
43	4.4
44	4.4
45	4.5
46	3.8
47	4.4
48	0
49	0
50	0
51	4.4
52	4.5
53	4.4
54	4.5
55	3.7
56	4.1
57	0.3
58	4.3
59	4.5
60	4.0
61	4.5
62	4.5
63	4.5
64	4.5
IC502	
1	3.2
2	3.5
3	9.0
4	2.9
5	0
6	9.0
IC503	
1	2.9
2	3.0
3	9.0
4	2.7
5	0
6	9.0
IC504	
1	2.1
2	2.1
3	9.0
4	2.3
5	0
6	9.0
Q507	
E	1.5
C	0
B	0.9
Q508	
E	2.9
C	0
B	2.2

MODE PIN NO.	DC (V)
Q509	
E	2.8
C	0
B	2.2
Q511	
E	0
C	5.2
B	0.4
Q512	
E	5.2
C	0
B	4.6
Q513	
1	0
2	0.7
3	0.7
4	0
5	0.2
6	0
Q2051	
E	0
C	0
B	0
Q2052	
E	0
C	0
B	0
Q2053	
E	0
C	0
B	0
Q2151	
E	0
C	0
B	0
Q2152	
E	0
C	0
B	0
Q2153	
E	0
C	0
B	0
Q2171	
E	4.9
C	4.3
B	4.8
Q2172	
E	4.6
C	5.0
B	4.9
Q2173	
E	0
C	5.3
B	0
Q2451	
E	0
C	0
B	0
Q2452	
E	0
C	0
B	0
Q2453	
E	0
C	0
B	0

[P.2-11 - P.2-12]

MODE PIN NO.	DC (V)
IC711	
1	5.2
2	5.3
3	4.6
4	4.6
5	0.4
6	0.4
7	0.4
8	0
9	5.4
10	5.3
11	5.4
12	5.4
13	0
14	5.1
15	4.9
16	5.4
IC801	
1	2.3
2	2.0
3	1.5
4	0
5	2.4
6	5.2
7	2.6
8	0
9	0.4
10	0.8
11	2.5
12	5.2
13	4.9
14	4.9
15	0
16	0
17	0
18	0
19	0
20	2.5
21	1.8
22	1.9
23	1.9
24	0
25	2.6
26	2.6
27	0
28	0
29	0
30	0
31	0
32	5.2
33	2.6
34	2.6
35	2.6
36	0.6
37	5.2
38	4.1
39	1.8
40	3.3
41	2.1
42	4.7
43	1.8
44	2.0
45	5.2
46	2.1
47	3.9
48	1.8
IC802	
1	1.3
2	3.2
3	5.1
4	2.5
5	0
6	1.9
7	2.4
8	0
9	0
10	0
11	5.1
12	0
13	5.2
14	0
15	4.9
16	5.0
17	0
18	0
19	2.5
20	5.1
21	0
22	2.9
23	2.9
24	3.5
25	3.4
26	0
27	3.4
28	1.7

MODE PIN NO.	DC (V)
Q402	
S	3.2
D	2.9
G	5.0
Q403	
S	3.1
D	3.0
G	5.0
Q404	
S	3.2
D	3.1
G	5.3
Q405	
S	3.1
D	3.2
G	5.3
Q801	
E	2.7
C	0
B	2.1
Q802	
E	2.9
C	0
B	2.3
Q804	
E	1.6
C	5.2
B	2.1
Q805	
E	1.6
C	5.2
B	2.2
Q806	
E	1.6
C	5.2
B	2.2
Q807	
E	1.6
C	5.1
B	2.2
Q808	
E	1.6
C	5.2
B	2.2
Q809	
E	1.6
C	5.2
B	2.0
Q810	
E	2.1
C	0
B	1.5
Q851	
E	1.6
C	0
B	1.0
Q853	
E	1.9
C	9.0
B	2.7
Q854	
E	2.8
C	9.0
B	3.3
Q855	
E	2.0
C	0
B	1.4
Q858	
E	2.8
C	9.0
B	3.3
Q859	
E	3.4
C	0.2
B	2.8
Q862	
E	1.0
C	4.1
B	1.6
Q863	
E	3.5
C	5.2
B	4.1

[P.2-13 - P.2-14]

MODE PIN NO.	DC (V)
IC201	
1	0.3
2	0.2
3	0
4	0
5	0
6	0
7	6.2
8	0
9	4.8
10	0
11	8.8
12	1.3
13	0
14	0
15	0.2
16	0
17	0
18	0
19	0.5
20	0
21	5.0
22	5.1
23	0
24	2.1
25	1.2
26	2.1
27	0
28	0.8
29	0.4
30	0.6
IC203	
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0.6
10	0.6
11	0.5
12	0
13	0
14	0
15	0
16	5.2
IC301	
1	5.2
2	4.8
3	5.0
4	0
5	4.4
6	0
7	4.7
8	5.1
9	4.7
10	0.6
11	4.5
12	4.5
13	0
14	4.7
15	0
16	4.7
17	5.1
18	4.7
19	0.6
20	4.5
21	4.5
22	0
23	4.5
24	4.5
25	0
26	0.5
27	4.4
28	0
29	0
30	4.4
31	9.0
32	4.5
33	4.5
34	0
35	4.5
36	4.5
37	0
38	4.54
39	4.5
40	4.5
41	4.5
42	0
43	4.4
44	4.5
45	0
46	4.4
47	9.0
48	4.7

MODE PIN NO.	DC (V)
49	0.4
50	0.4
51	0
52	4.7
53	0
54	4.5
55	1.5
56	0
57	0.4
58	0
59	4.7
60	0
61	4.7
62	0.4
63	4.5
64	4.5
65	0
66	4.7
67	4.7
68	4.7
69	0
70	4.5
71	4.5
72	0
73	5.2
74	4.7
75	4.7
76	4.7
77	0
78	4.5
79	4.5
80	0
Q301	
E	3.8
C	9.0
B	4.6
Q302	
E	3.8
C	9.0
B	4.5
Q303	
E	3.8
C	9.0
B	4.5
Q307	
E	2.8
C	0
B	2.2

[P.2-15 - P.2-16]

MODE PIN NO.	DC (V)
IC6001	
1	8.8
2	4.0
3	0.4
4	0.5
5	4.1
6	4.2
7	0
8	0
9	4.1
10	4.0
11	0
12	0.2
13	4.1
14	0
IC6201	
1	13.4
2	2.8
3	12.2
4	2.5
5	0
IC6521	
1	6.1
2	6.2
3	6.1
4	6.1
5	6.1
6	6.1
7	6.1
8	6.1
9	0.9
10	6.2
11	3.1
12	3.1
13	5.0
14	5.1
15	0
16	12.0
17	0
18	0
19	5.9
20	6.1
21	6.1
22	6.1
23	6.1
24	6.2
25	6.2
26	6.1
27	6.1
28	6.1
29	6.2
30	6.1
IC6551	
1	6.4
2	6.3
3	6.2
4	0
5	6.2
6	6.3
7	6.4
8	12.2
IC6552	
1	6.3
2	6.3
3	6.2
4	0
5	6.2
6	6.3
7	6.3
8	12.2
IC6621	
1	-7.0
2	0
3	0
4	-13.4
5	0
6	0
7	-7.0
8	12.7
IC6661	
1	-7.0
2	-7.3
3	0.1
4	0.3
5	13.3
6	11.8
7	0
8	-13.4
9	-0.7
10	-13.4
11	0
12	11.9
13	13.3
14	0.4
15	-2.9
16	-7.4
17	-7.0

MODE PIN NO.	DC (V)
Q6301	
E	5.3
C	12.2
B	5.9
Q6302	
E	5.3
C	12.2
B	5.9
Q6421	
E	0
C	5.3
B	0.2
Q6431	
E	8.9
C	-0.1
B	9.0
Q6521	
E	0
C	0
B	0
Q6522	
E	0
C	0
B	0
Q6523	
E	0
C	0
B	0
Q6531	
E	0
C	2.8
B	0
Q6532	
E	0
C	0
B	0.7
Q6533	
E	0
C	0
B	0.6
Q6534	
E	0.8
C	0.6
B	0.1
Q6538	
E	0
C	0
B	0
Q6539	
E	0
C	0
B	0
Q6661	
E	13.4
C	-13.4
B	13.3
Q6662	
E	-13.4
C	0.3
B	-13.4
Q6663	
E	0
C	13.3
B	0
Q6672	
E	0
C	8.9
B	0
Q6673	
E	8.5
C	0
B	9.0

[P.2-17 - P.2-18]

MODE PIN NO.	DC (V)
IC902	
1	5.0
2	0
3	3.3
Q901	
1	11.9
2	0
3	9.0
Q902	
E	6.0
C	5.3
B	5.3

<DIGITAL SIGNAL>

[P.2-19 - P.2-20]

MODE PIN NO.	DC (V)
IC1502	
1	4.3
2	0
3	4.4
4	0
5	3.6
6	0
7	3.6
8	0

[P.2-21 - P.2-22]

MODE PIN NO.	DC (V)
IC0401	
1	3.2
2	0.2
3	0
4	3.2
5	3.3
Q0101	
E	2.8
C	8.0
B	3.8
Q0102	
E	8.7
C	3.7
B	8.0
Q0104	
E	4.4
C	0
B	3.7
Q0107	
E	1.6
C	0
B	0.8
Q0108	
E	0.8
C	9.1
B	1.5
Q0109	
1	1.4
2	0
3	0
4	1.5
5	0
6	1.5
Q0110	
1	0
2	0.6
3	0
4	0
5	0.6
6	0
Q0201	
E	3.0
C	7.9
B	3.7
Q0202	
E	8.7
C	3.9
B	7.9
Q0203	
E	0
C	2.0
B	0
Q0204	
E	4.7
C	0
B	4.0
Q0207	
E	2.5
C	0
B	2.0
Q0208	
E	1.8
C	9.1
B	2.4
Q0209	
1	2.4
2	0.1
3	0
4	2.5
5	0
6	0
Q0210	
1	0
2	0.6
3	0.1
4	0.1
5	0.5
6	0.1
Q0301	
E	3.1
C	7.9
B	3.8
Q0302	
E	8.7
C	3.9
B	7.8
Q0303	
E	0
C	2.0
B	0
Q0304	
E	4.7
C	0
B	4.0

MODE PIN NO.	DC (V)
Q0307	
E	2.5
C	0
B	2.0
Q0308	
E	1.8
C	9.1
B	2.4
Q0309	
1	0
2	0.1
3	2.4
4	2.5
5	0.1
6	2.5
Q0310	
1	0
2	0
3	0.6
4	0.1
5	0.3
6	0.1

[P.2-23 - P.2-24]

MODE PIN NO.	DC (V)
IC1001	
1	2.5
2	1.0
3	1.2
4	0
5	3.3
6	1.7
7	1.6
8	0
9	0
10	1.5
11	0.2
12	0.2
13	0.2
14	0
15	0.2
16	0.2
17	1.5
18	0.2
19	0.2
20	0
21	1.5
22	0.2
23	0.2
24	3.3
25	0.2
26	0.1
27	0
28	0
29	0
30	3.2
31	3.2
32	3.2
33	0
34	0
35	0
36	1.5
37	0
38	0
39	0
40	0
41	0
42	3.3
43	0.7
44	0.9
45	0
46	0.7
47	1.9
48	1.9
49	0
50	0
51	1.5
52	0
53	2.5
54	1.3
55	1.4
56	0
57	0
58	1.3
59	1.5
60	0
61	0
62	0
63	1.1
64	3.3
65	1.0
66	0.8
67	0
68	1.0
69	1.0
70	1.5
71	0.9
72	0.8
73	0
74	2.3
75	0.2
76	0
77	1.6
78	1.5
79	0
80	1.1
81	0.9
82	1.7
83	1.3
84	0
85	1.1
86	0
87	0.8
88	0.8
89	1.7
90	1.2
91	2.5
92	1.1
93	0
94	1.2
95	0.8
96	2.5

MODE PIN NO.	DC (V)
97	2.0
98	0
99	1.1
100	1.5
IC1002	
1	3.2
2	0
3	3.2
4	1.2
5	2.4
Q1001	
E	0
C	3.3
B	0
Q1003	
E	1.4
C	2.5
B	2.0
Q1004	
E	4.3
C	0
B	3.7
Q1101	
E	3.0
C	9.0
B	3.7
Q1103	
E	1.8
C	0
B	1.2
Q1201	
E	3.8
C	9.1
B	4.5
Q1203	
E	2.1
C	0
B	1.4
Q1301	
E	3.9
C	9.1
B	4.6
Q1303	
E	2.6
C	0
B	2.0
Q1401	
E	4.0
C	9.1
B	4.6
Q1403	
E	2.6
C	0
B	1.9

[P.2-27 - P.2-28]

MODE PIN NO.	DC (V)
IC3403	
1	0
2	3.3
3	0
4	3.3
IC3501	
1	1.2
2	2.4
3	1.2
4	1.2
5	0
6	1.2
7	1.2
8	2.4
9	1.2
10	1.2
11	0
12	1.2
13	1.2
14	2.4
15	2.4
16	0
17	1.2
18	1.2
19	0
20	1.2
21	1.2
22	2.5
23	0.4
24	0.4
25	1.7
26	1.7
27	1.7
28	0
29	0.7
30	0.7
31	0.7
32	0.7
33	0.7
34	0.7
35	2.4
36	0.7
37	0
38	0
39	0
40	0
41	0
42	0
43	0
44	0
45	0.7
46	0
47	0.7
48	0.7
49	0.7
50	0.7
51	0.7
52	0
53	1.7
54	1.3
55	1.2
56	0.4
57	0.4
58	1.2
59	2.5
60	1.2
61	1.2
62	0
63	1.2
64	1.2
65	2.4
66	0
67	2.4
68	1.2
69	1.2
70	0
71	1.2
72	1.2
73	2.4
74	1.2
75	1.2
76	0
77	1.2
78	1.2
79	2.5
80	1.2
81	1.2
82	0
83	1.2
84	1.2
85	0
86	0
87	0
88	0
89	0
90	0
91	0

MODE PIN NO.	DC (V)
92	0
93	0
94	1.2
95	2.4
96	0
97	1.2
98	1.2
99	0
100	1.2
IC3502	
1	1.2
2	2.4
3	1.2
4	1.2
5	0
6	1.2
7	1.2
8	2.4
9	1.2
10	1.2
11	0
12	1.2
13	1.2
14	2.4
15	2.4
16	0
17	1.2
18	1.2
19	0
20	1.2
21	1.2
22	2.5
23	0.4
24	0.4
25	1.7
26	1.7
27	1.7
28	0
29	0.7
30	0.6
31	0.7
32	0.7
33	0.7
34	0.7
35	2.4
36	0.7
37	0
38	0
39	0
40	0
41	0
42	0
43	0
44	0
45	0.7
46	0
47	0.7
48	0.7
49	0.7
50	0.7
51	0.7
52	0
53	1.7
54	1.3
55	1.2
56	0.4
57	0.4
58	1.2
59	2.5
60	1.2
61	1.2
62	0
63	1.2
64	1.2
65	2.5
66	0
67	2.4
68	1.2
69	1.2
70	0
71	1.2
72	1.2
73	2.4
74	1.2
75	1.2
76	0
77	1.2
78	1.2
79	2.5
80	1.2
81	1.2
82	0
83	1.2
84	1.2
85	0
86	2.5
87	0

MODE PIN NO.	DC (V)
88	0
89	0
90	0
91	0
92	0
93	0
94	1.2
95	2.5
96	2.5
97	1.2
98	1.2
99	0
100	0
IC3503	
1	0
2	2.4
3	1.2
4	1.2
5	2.5
6	2.4
7	2.5
8	1.2
Q3001	
E	2.2
C	3.3
B	2.8
Q3002	
E	2.9
C	0
B	2.2
Q3003	
E	0.7
C	3.3
B	1.4
Q3004	
E	1.4
C	0
B	0.7

[P.2-29 - P.2-30]

MODE PIN NO.	DC (V)
IC4003	
1	0
2	0
3	0
4	0
5	0
6	0
7	3.2
8	3.3
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	0
21	0.3
22	0.5
23	0.4
24	0
25	0.5
26	0.5
27	0.5
28	0.5
29	0.4
30	3.3
31	0
32	3.3
IC4004	
1	0
2	0
3	0
4	0
5	3.3
6	3.2
7	0
8	3.3

[P.2-31 - P.2-32]

MODE PIN NO.	DC (V)
IC6502	
1	3.3
2	0.8
3	1.4
4	0
5	0
6	0.3
7	0
8	0
9	3.2
10	0.9
11	0
12	0.3
13	0
14	1.5
15	1.1
16	0
17	0
18	0.6
19	0.7
20	0.8
21	0
22	0.4
23	0.4
24	0
25	1.6
26	3.2
27	3.3
28	0
29	0
30	2.7
31	1.2
32	3.3
33	0
34	0
35	0
36	0
37	1.1
38	1.3
39	1.2
40	1.2
41	1.2
42	1.2
43	0
44	3.3
45	1.1
46	1.3
47	1.1
48	1.3
49	0
50	0.7
51	0.9
52	0.8
53	0
54	0.4
55	0.4
56	0.7
Q6501	
E	0
C	4.7
B	0
Q6502	
E	0
C	3.0
B	0.2
CN000W	
1	2.9
2	3.3
3	0
4	0
5	3.0
6	3.0
7	3.0
8	4.5
9	4.9
10	0
11	0.2
12	0
CN0LV2	
1	0
2	0
3	1.3
4	1.1
5	0
6	0
7	1.3
8	0.1
9	0
10	0
11	1.2
12	1.2
13	0
14	0
15	1.2
16	1.3
17	0
18	0

MODE PIN NO.	DC (V)
19	1.2
20	1.2
21	0
22	0
23	0
24	3.3
25	3.3
26	0
27	4.9
28	4.9
29	4.9
30	4.9
31	3.3

[P.2-35 - P.2-36]

MODE PIN NO.	DC (V)
IC7602	
1	0
2	0
3	0
4	0
5	3.2
6	3.2
7	0
8	3.2

[P.2-37 - P.2-38]

MODE PIN NO.	
IC7001	
1	3.2
2	0
3	0
4	2.8
5	0
6	0
7	3.1
8	0
9	0
10	3.2
11	3.2
12	3.2
13	3.2
14	0
15	3.2
16	0
17	3.2
18	0
19	0
20	3.2
21	3.2
22	3.2
23	1.5
24	1.4
25	3.2
26	0
27	0
28	0
29	0
30	3.2
31	0
32	0
33	0
34	3.2
35	0
36	3.1
37	0
38	3.2
39	0
40	3.2
41	0
42	3.2
43	0
44	0
45	1.9
46	0
47	0
48	3.2
49	0
50	2.0
51	3.2
52	0
53	3.2
54	3.2
55	3.2
56	3.2
57	3.2
58	3.2
59	0
60	0
61	0
62	0
63	0
64	0
65	0
66	3.3
67	0
68	3.2
69	3.2
70	3.2
71	3.2
72	0
73	3.2
74	3.2
75	3.2
76	3.2
77	3.4
78	0
79	3.3
80	0
81	0
82	3.2
83	3.2
84	3.2
85	3.2
86	3.2
87	3.2
88	0
89	0
90	2.8
91	0
92	0
93	3.2
94	0
95	3.2
96	3.2

MODE PIN NO.	DC (V)
97	0
98	0
99	3.2
100	2.4
IC7002	
1	0
2	0
3	0
4	0
5	3.2
6	3.2
7	0
8	3.2
IC7401	
1	3.2
2	3.2
3	0
4	0
Q7201	
E	4.7
C	0.3
B	4.2
Q7202	
E	3.9
C	4.1
B	2.3
Q7203	
E	3.9
C	4.7
B	4.2
Q7204	
E	0
C	4.5
B	0
Q7205	
E	0
C	0
B	0
Q7206	
E	0
C	2.0
B	1.0
Q7207	
E	3.2
C	3.2
B	0

[P.2-39 - P.2-40]

MODE PIN NO.	DC (V)
IC7501	
1	3.3
2	0.2
3	0.2
4	3.3
5	0
6	0
7	0
8	0
9	0
10	0
11	0.3
12	3.2
13	0
14	3.3
15	0
16	0
17	0
18	0
19	0
20	0
21	2.4
22	0
23	0
24	2.5
25	0
26	0.8
27	2.4
28	0
29	0
30	1.1
31	0
32	0
33	0.8
34	0.8
35	1.6
36	0.9
37	0
38	1.0
39	2.9
40	2.5
41	0
42	3.2
43	1.6
44	2.5
45	3.3
46	3.3
47	3.2
48	0
49	0
50	3.3
51	1.5
52	0
53	3.3
54	0.7
55	0.1
56	2.1
57	0.1
58	1.1
59	1.1
60	0
61	3.3
62	0.3
63	0.2
64	1.1
65	1.5
66	0.8
67	0.5
68	0
69	3.3
70	0.5
71	0.7
72	1.0
73	3.3
74	3.3
75	3.2
76	2.0
77	1.2
78	0
79	0
80	0
81	0
82	3.2
83	0
84	0
85	3.3
86	0
87	2.4
88	0
89	3.2
90	0
91	3.2
92	0
93	0
94	0
95	0
96	0

MODE PIN NO.	DC (V)
97	0
98	3.3
99	3.2
100	0
101	3.2
102	3.3
103	3.3
104	0
105	0
106	3.2
107	0
108	0.6
109	0.3
110	0
111	2.5
112	0.3
113	0.3
114	0.2
115	0
116	2.4
117	0
118	0
119	2.5
120	0
121	0.7
122	0
123	2.4
124	2.4
125	2.4
126	1.7
127	0.5
128	0
IC7502	
1	3.3
2	3.2
3	0
4	0
IC7503	
1	3.3
2	0.2
3	3.3
4	1.2
5	1.6
6	0
7	0.7
8	0.6
9	3.3
10	1.0
11	0.9
12	0
13	0.8
14	3.3
15	0
16	3.2
17	2.5
18	2.9
19	2.4
20	1.2
21	1.1
22	0
23	0
24	0.9
25	1.6
26	0
27	3.3
28	0
29	0.7
30	2.3
31	0.8
32	2.5
33	0
34	0
35	0
36	0
37	3.2
38	1.58
39	0
40	0
41	0
42	0.3
43	3.3
44	0.2
45	0.6
46	0
47	1.0
48	0.9
49	3.3
50	0.3
51	2.0
52	0
53	1.2
54	0

MODE PIN NO.	DC (V)
IC7505	
1	4.7
2	0
3	1.3
4	2.4
5	3.3
IC7506	
1	0.2
2	3.3
3	0.1
4	0.1
5	0.1
6	0
7	0
8	0
9	0
10	0
11	0
12	3.3
13	0.4
14	3.2
15	3.3
16	3.3
IC9001	
1	8.1
2	11.9
3	3.3
4	0
5	1.2
6	1.3
7	5.3
8	0
IC9101	
1	7.3
2	11.8
3	2.4
4	0
5	1.2
6	1.4
7	5.3
8	0
IC9201	
1	6.4
2	11.8
3	1.5
4	0
5	1.2
6	1.3
7	5.1
8	0
Q7501	
E	2.6
C	0
B	2.1
Q7508	
E	0
C	0
B	0

<CONNECTER>
[P.2-41 - P.2-42]

MODE PIN NO.	DC (V)
IC4201	
1	0.6
2	0.6
3	0
4	0.2
5	3.3
IC4801	
1	10.2
2	0
3	5.6
4	0
5	1.1
6	0
7	3.2
8	0
IC4901	
1	8.6
2	8.9
3	3.7
4	0
5	1.1
6	1.4
7	3.2
8	0
IC4902	
1	3.2
2	3.2
3	2.4
4	1.2
5	0

<FRONT CONTROL>
[P.2-43 - P.2-44]

MODE PIN NO.	DC (V)
Q7701	
E	0
C	0
B	3.2
Q7705	
E	3.0
C	2.9
B	0

<FRONT SENSOR>
[P.2-45 - P.2-46]

MODE PIN NO.	DC (V)
IC8752	
1	3.7
2	5.0
3	0

<POWER>
[P.2-49 - P.2-50]

MODE PIN NO.	DC (V)
IC9141	
1	5.7
2	0
3	5.0
IC9211	
1	2.5
2	0
3	0.7
4	0
5	2.6
6	0
7	13.1
8	20.2
Q9021	
E	0
C	0.1
B	3.1
Q9211	
S	0
D	87.8
G	13.1
Q9212	
E	0
C	10.2
B	0
Q9213	
1	20.2
2	0
3	0
4	0
5	0
6	20.2
Q9215	
E	0
C	0
B	0.6
Q9216	
E	0
C	10.7
B	0.1
Q9251	
E	0
C	10.2
B	0.5
Q9252	
E	0
C	0
B	10.7

[P.2-51 - P.2-52]

MODE PIN NO.	DC (V)
IC9501	
4	0
7	20.3
8	0
10	4.9
11	1.1
12	4.9
13	3.0
14	0.8
15	5.0
16	1.3
19	256.5
20	255.3
23	378.2
IC9541	
1	2.4
2	0
3	9.0
IC9602	
1	0
2	4.9
3	4.9
4	5.3
5	0
6	5.3
7	0
8	0
9	0
10	0
11	0
12	0
13	5.3
14	0
15	0
16	0
IC9603	
1	0
2	2.1
3	12.0
4	2.5
5	16.2
IC9901	
1	13.4
2	11.9
3	9.1
4	0
5	1.2
6	1.2
7	3.1
8	0
Q9501	
E	0
C	0
B	0.6
Q9502	
S	0
D	0.4
G	378.2
Q9503	
E	0
C	0
B	0.6
Q9504	
S	22.6
D	20.9
G	39.8
Q9506	
E	0
C	9.9
B	0.1
Q9541	
E	0
C	0
B	3.2
Q9602	
E	11.2
C	11.8
B	11.9
Q9603	
E	0
C	0
B	5.2
Q9901	
E	0
C	0
B	0.6
CN000P	
1	12.0
2	12.0
3	12.0
4	12.0
5	12.0
6	0
7	0
8	0
9	0
10	0

MODE PIN NO.	DC (V)
CN000Q	
1	12.0
2	12.0
3	12.0
4	12.0
5	12.0
6	0
7	0
8	0
9	0
10	0

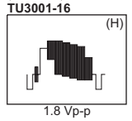
<REGULATOR>
[P.2-47 - P.2-48]

MODE PIN NO.	DC (V)
IC9802	
1	10.0
2	11.9
3	5.2
4	0
5	1.2
6	1.2
7	3.1
8	0
IC9803	
1	9.6
2	11.9
3	5.2
4	0
5	1.2
6	1.5
7	5.1
8	1.6
Q9802	
E	0
C	0
B	0.6
Q9803	
E	0
C	0
B	0.6

WAVEFORMS

RECEIVER PWB (SHEET1)

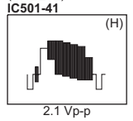
TU3001-16



1.8 Vp-p

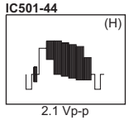
ANALOG SIGNAL PWB (1/5) (SHEET2)

IC501-41



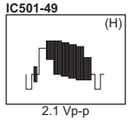
2.1 Vp-p

IC501-44



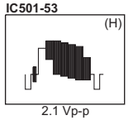
2.1 Vp-p

IC501-49



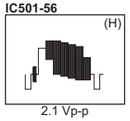
2.1 Vp-p

IC501-53



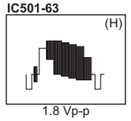
2.1 Vp-p

IC501-56



2.1 Vp-p

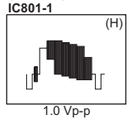
IC501-63



1.8 Vp-p

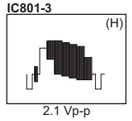
ANALOG SIGNAL PWB (2/5) (SHEET3)

IC801-1



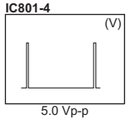
1.0 Vp-p

IC801-3



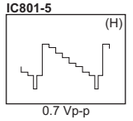
2.1 Vp-p

IC801-4



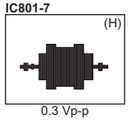
5.0 Vp-p

IC801-5



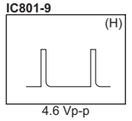
0.7 Vp-p

IC801-7



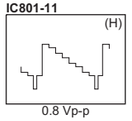
0.3 Vp-p

IC801-9



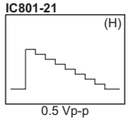
4.6 Vp-p

IC801-11



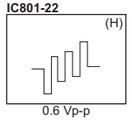
0.8 Vp-p

IC801-21



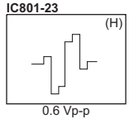
0.5 Vp-p

IC801-22



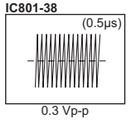
0.6 Vp-p

IC801-23



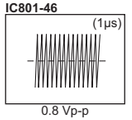
0.6 Vp-p

IC801-38



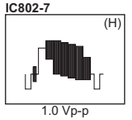
0.3 Vp-p

IC801-46



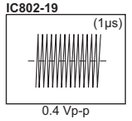
0.8 Vp-p

IC802-7



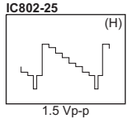
1.0 Vp-p

IC802-19



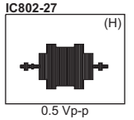
0.4 Vp-p

IC802-25



1.5 Vp-p

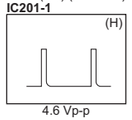
IC802-27



0.5 Vp-p

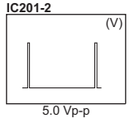
ANALOG SIGNAL PWB (3/5) (SHEET4)

IC201-1



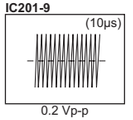
4.6 Vp-p

IC201-2



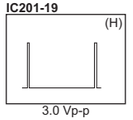
5.0 Vp-p

IC201-9



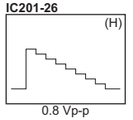
0.2 Vp-p

IC201-19



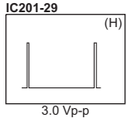
3.0 Vp-p

IC201-26



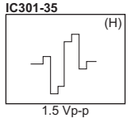
0.8 Vp-p

IC201-29



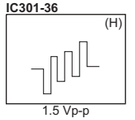
3.0 Vp-p

IC301-35



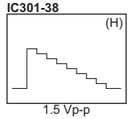
1.5 Vp-p

IC301-36



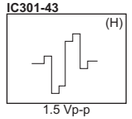
1.5 Vp-p

IC301-38



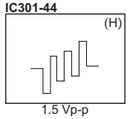
1.5 Vp-p

IC301-43



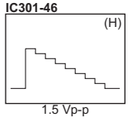
1.5 Vp-p

IC301-44



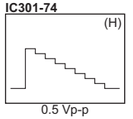
1.5 Vp-p

IC301-46



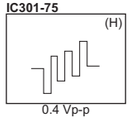
1.5 Vp-p

IC301-74



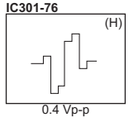
0.5 Vp-p

IC301-75



0.4 Vp-p

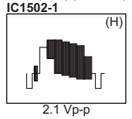
IC301-76



0.4 Vp-p

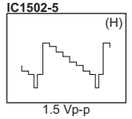
DIGITAL SIGNAL PWB (1/11) (SHEET7)

IC1502-1



2.1 Vp-p

IC1502-5



1.5 Vp-p

IC1502-7

1.5 Vp-p

DIGITAL SIGNAL PWB (3/11) (SHEET9)

IC1001-7

5.2 Vp-p

IC1001-58

4.8 Vp-p

IC1001-75

3.4 Vp-p

IC1001-76

3.4 Vp-p

IC1001-85

0.6 Vp-p

IC1001-92

0.7 Vp-p

IC1001-94

0.7 Vp-p

DIGITAL SIGNAL PWB (7/11) (SHEET13)

IC6502-27

3.2 Vp-p

IC6502-28

3.2 Vp-p

IC6502-31

5.0 Vp-p

DIGITAL SIGNAL PWB (10/11) (SHEET16)

IC7001-23

2.5 Vp-p

IC7001-24

3.9 Vp-p

IC7001-78

3.4 Vp-p

DIGITAL SIGNAL PWB (11/11) (SHEET17)

IC7501-102

3.4 Vp-p

IC7501-103

3.4 Vp-p

IC7501-108

1.4 Vp-p

IC7501-121

0.8 Vp-p

IC7506-1

4.2 Vp-p

IC7506-2

3.2 Vp-p

IC7506-12

3.2 Vp-p

IC7506-13

3.0 Vp-p

IC7506-14

3.2 Vp-p

IC7506-15

3.4 Vp-p

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(No.YA206)

Printed in Japan
VPT

PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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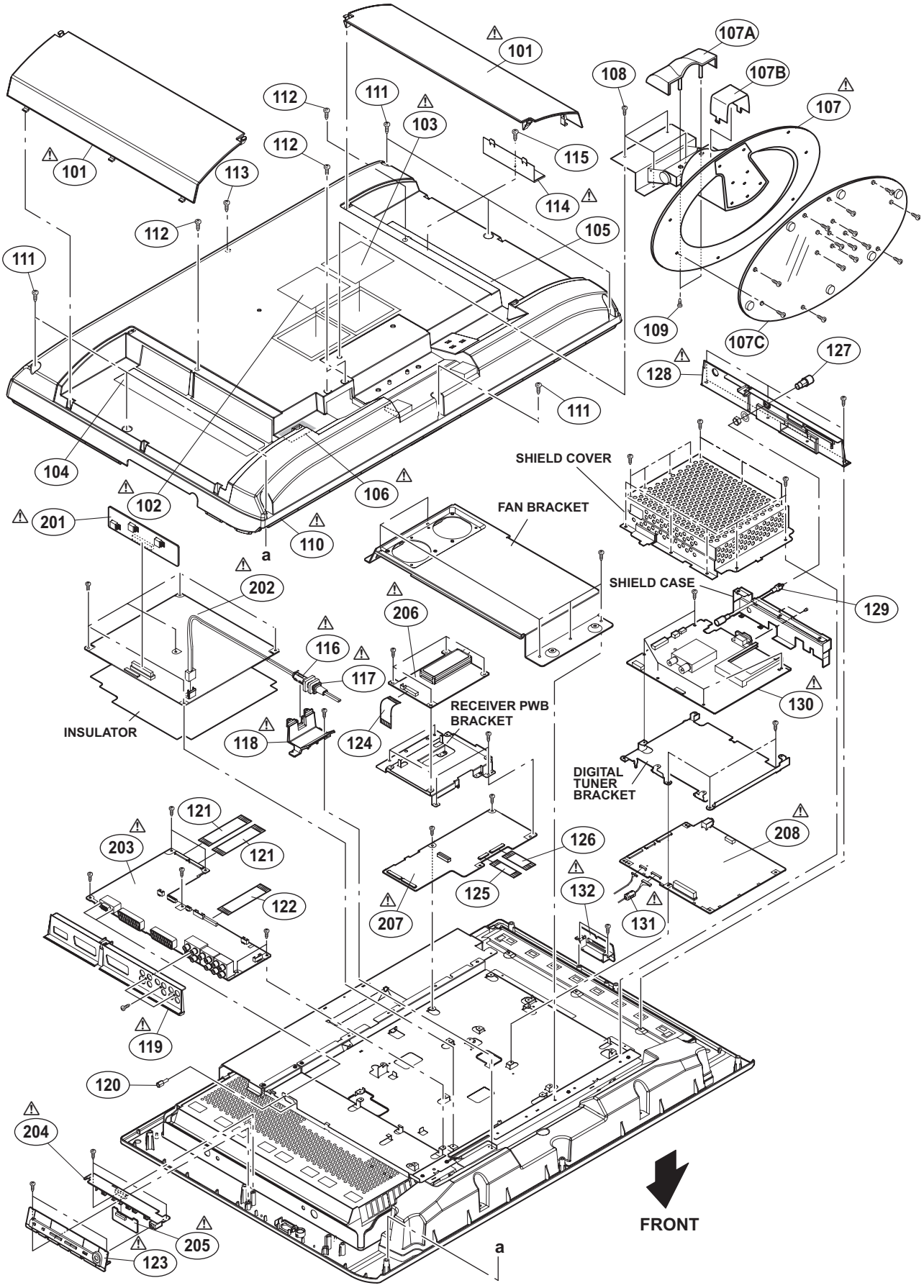
USING P.W. BOARD & REMOTE CONTROL UNIT

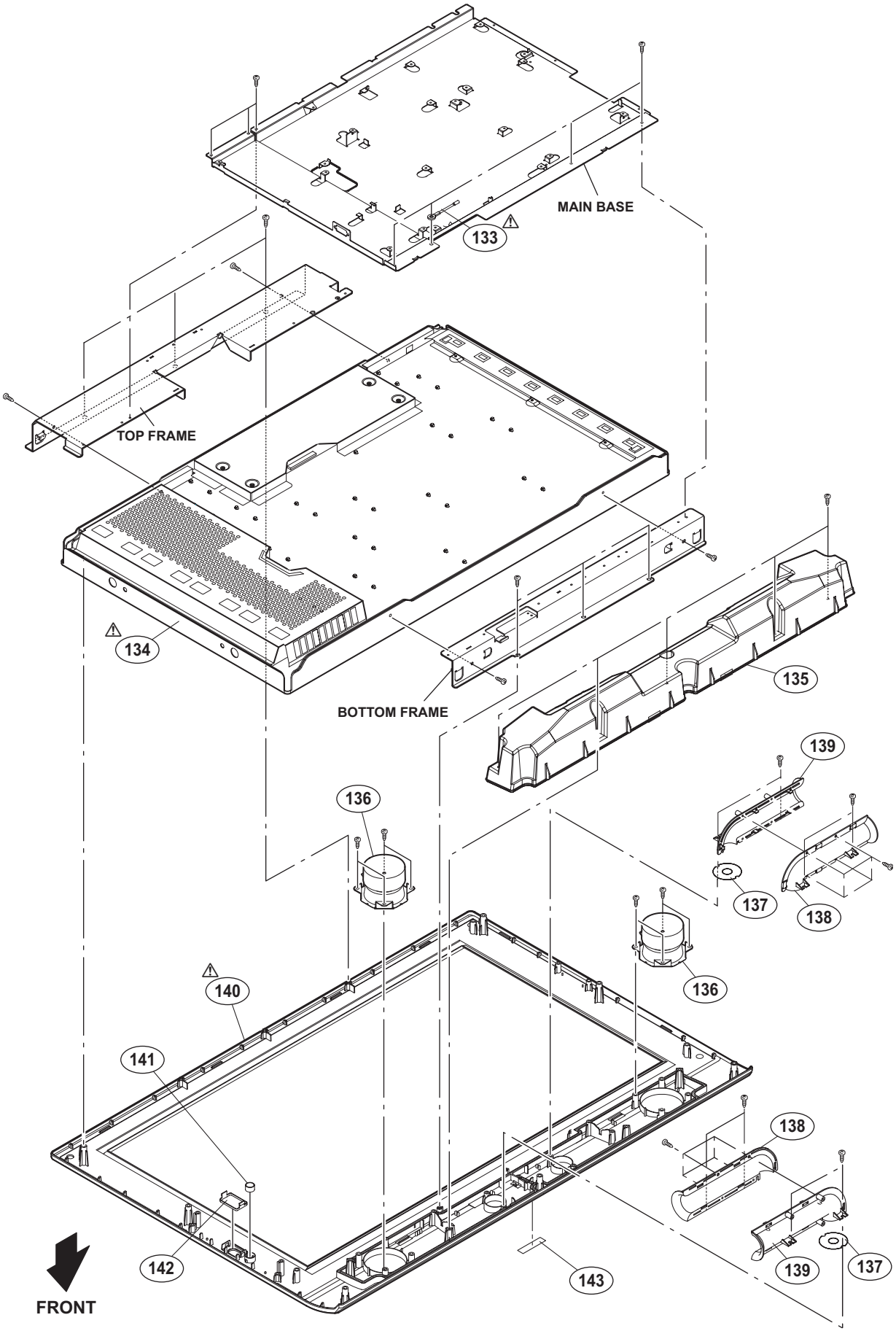
P.W.B ASS'Y	LT-32D50BJ	LT-32D50SJ
ANALOG SIGNAL P.W.B	SFL-1022A-U2	←
CONNECTOR P.W.B	SFL-4022A-U2	←
FRONT CONTROL P.W.B	SFL-7022A-U2	←
FRONT SENSOR P.W.B	SFL-8022A-U2	←
POWER P.W.B	SFL-9010A-U2	←
REGULATOR P.W.B	SFL-9110A-U2	←
DIGITAL SIGNAL P.W.B	LCA10428-62B (SFL-0D204A)	←
RECEIVER P.W.B	SFL0F202A-U2	←
REMOTE CONTROL UNIT	RM-C1813H-1C	←

EXPLODED VIEW PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	101	LC12040-001B-U	JACK COVER	(x2)	
⚠	102	LC21301-032A-U	RATING LABEL		
⚠	103	LC21300-021B-U	RATING LABEL		
	104	LC32748-003A-H	OPERATION SHEET		
	105	LC32749-004A-H	OPERATION SHEET		
⚠	106	LC41999-004A-U	CAUTION LABEL		
⚠	107	AEM1156-001A-U	STAND ASSY	Inc.No.107A-107C	
	107A	AEM2310-001A-U	STAND COVER		
	107B	AEM3459-001A-U	CORD COVER		
	107C	AEM2334-001A-U	GRASS		
	108	QYSPSPD5014MA	SCREW	M5 x 14mm(x4)	
	109	QYSPSPD3016ZA	SCREW	M3 x 16mm(x2)	
⚠	110	LC12039-001B-U	REAR COVER		
	111	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x7)	
	112	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x4)	
	113	QYSPSPD3008ZA	SCREW	M3 x 8mm	
⚠	114	LC32760-001A-HK	SERVICE COVER		
	115	QYSBSF3010MA	TAP SCREW	M3 x 10mm	
⚠	116	QQR0491-001	FERRITE CORE		
⚠	117	QMPN260-170-JC	POWER CORD(EK)	1.7m BLACK	
⚠	118	LC21348-001D-HK	POWER CORD HOLDER		
⚠	119	LC21735-001B-U	TERMINAL BASE		
	120	QNB0036-001	HEX SCREW	(x2)	
	121	QUQ105-5009AE	FFC WIRE	50pin 9cm(x2)	
	122	QUQK12-1906CH	FFC WIRE	19pin 6cm	
⚠	123	LC32351-010A-0K	CONTROL KNOB ASSY		
	124	QUQ105-4006AL	FFC WIRE	40pin 6cm	
	125	QUQ105-3004AA	FFC WIRE	30pin 4cm	
	126	QUQ105-5004AA	FFC WIRE	50pin 4cm	
	127	QNB0112-002	ANTENNA TERMINAL		
⚠	128	LC21734-002C-U	TUNER BASE		
	129	WJX0027-002A	E-COAXIAL ASSY		
⚠	130	QAU0398-001	DIGITAL TUNER UNIT		
⚠	131	QQR0490-001	NOISE FILTER		
⚠	132	LC32698-002B-HK	SIDE BASE		
⚠	133	QUB190-12FXHM	SIN TWIST WIRE		
⚠	134	QLD0343-001	LCD PANEL UNIT		
	135	LC11633-002A-U	SPEAKER BOX		
	136	QAS0142-001	SPEAKER	SP01/SP02(x2)	
	137	LC42001-002B-C	DUCT SHEET	(x2)	
	138	LC21339-002A-U	DUCT BASE	(x2)	
	139	LC21340-002A-U	DUCT COVER	(x2)	
⚠	140	LC12036-004B-U	FRONT PANEL ASSY		
	141	LC41901-001C-HK	LED LENS		
	142	LC32747-002C-HK	SENSOR WINDOW		
	143	LC41852-001A	JVC MARK ASSY		
⚠	201	SFL-9110A-U2	REGULATOR PWB		
⚠	202	SFL-9010A-U2	POWER PWB		
⚠	203	SFL-1022A-U2	ANALOG SIGNAL PWB		
⚠	204	SFL-7022A-U2	FRONT CONTROL PWB		
⚠	205	SFL-8022A-U2	FRONT SENSOR PWB		
⚠	206	SFL0F202A-U2	RECEIVER PWB		
⚠	207	SFL-4022A-U2	CONNECTOR PWB		
⚠	208	LCA10428-62B	DIGITAL SIGNAL PWB		

EXPLODED VIEW




MAIN BASE
133
TOP FRAME
134
BOTTOM FRAME
135
139
136
137
138
140
141
142
143
FRONT

PRINTED WIRING BOARD PARTS LIST

ANALOG SIGNAL P.W. BOARD ASS'Y (SFL-1022A-U2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC201	TA1370FG-X	IC		
IC203	CD74HC4053PW-X	IC		
IC301	AN15852A	IC		
IC501	CXA2069Q	IC		
IC502	MM1510XN-X	IC		
IC503	MM1510XN-X	IC		
IC504	MM1510XN-X	IC		
IC711	CXA1875AM-X	IC		
IC801	TB1274AF	IC		
IC802	TC90A69AF-X	IC		
IC902	TA48M033F-X	IC		
IC6001	NJM2777M-X	IC		
IC6201	PQ20WZ11-X	IC		
IC6521	NJW1137M-W	IC		
IC6551	RC4558D-X	IC		
IC6552	RC4558D-X	IC		
IC6621	LM393DR-X	IC		
IC6661	TDA8925ST/N1	IC		
Q301	2SC3837K/NP/-X	TRANSISTOR		
Q302	2SC3837K/NP/-X	TRANSISTOR		
Q303	2SC3837K/NP/-X	TRANSISTOR		
Q307	2SA1530A/QR/-X	TRANSISTOR		
Q402	2SK1374-X	MOS FET		
Q403	2SK1374-X	MOS FET		
Q404	2SK1374-X	MOS FET		
Q405	2SK1374-X	MOS FET		
Q507	2SA1530A/QR/-X	TRANSISTOR		
Q508	2SA1530A/QR/-X	TRANSISTOR		
Q509	2SA1530A/QR/-X	TRANSISTOR		
Q511	UN2226-X	DIGI TRANSISTOR		
Q512	2SA1530A/QR/-X	TRANSISTOR		
Q513	UMX1N-W	PAIR TRANSISTOR		
Q801	2SA1530A/QR/-X	TRANSISTOR		
Q802	2SA1530A/QR/-X	TRANSISTOR		
Q804	2SC3928A/QR/-X	TRANSISTOR		
Q805	2SC3928A/QR/-X	TRANSISTOR		
Q806	2SC3928A/QR/-X	TRANSISTOR		
Q807	2SC3928A/QR/-X	TRANSISTOR		
Q808	2SC3928A/QR/-X	TRANSISTOR		
Q809	2SC3928A/QR/-X	TRANSISTOR		
Q810	2SA1530A/QR/-X	TRANSISTOR		
Q851	2SA1530A/QR/-X	TRANSISTOR		
Q853	2SC3928A/QR/-X	TRANSISTOR		
Q854	2SC3928A/QR/-X	TRANSISTOR		
Q855	2SA1530A/QR/-X	TRANSISTOR		
Q858	2SC3928A/QR/-X	TRANSISTOR		
Q859	2SA1530A/QR/-X	TRANSISTOR		
Q862	2SC3928A/QR/-X	TRANSISTOR		
Q863	2SC3928A/QR/-X	TRANSISTOR		
Q901	BA09FP-X	IC		
Q902	2SC3074/OY/-X	TRANSISTOR		
Q2051	UN2226-X	DIGI TRANSISTOR		
Q2052	UN2226-X	DIGI TRANSISTOR		
Q2053	UN2110-X	DIGI TRANSISTOR		
Q2151	UN2226-X	DIGI TRANSISTOR		
Q2152	UN2226-X	DIGI TRANSISTOR		
Q2153	UN2110-X	DIGI TRANSISTOR		
Q2171	2SC3928A/QR/-X	TRANSISTOR		
Q2172	2SC3928A/QR/-X	TRANSISTOR		
Q2173	UN2212-X	DIGI TRANSISTOR		
Q2451	UN2226-X	DIGI TRANSISTOR		
Q2452	UN2226-X	DIGI TRANSISTOR		
Q2453	UN2110-X	DIGI TRANSISTOR		
Q6301	2SC3928A/QR/-X	TRANSISTOR		
Q6302	2SC3928A/QR/-X	TRANSISTOR		
Q6421	2SC3928A/QR/-X	TRANSISTOR		
Q6431	2SA1530A/QR/-X	TRANSISTOR		
Q6521	2SC3928A/QR/-X	TRANSISTOR		
Q6522	2SC3928A/QR/-X	TRANSISTOR		
Q6523	2SA1530A/QR/-X	TRANSISTOR		
Q6531	2SC3928A/QR/-X	TRANSISTOR		
Q6532	2SC3928A/QR/-X	TRANSISTOR		
Q6533	2SC3928A/QR/-X	TRANSISTOR		
Q6534	2SA1530A/QR/-X	TRANSISTOR		
Q6538	2SC3928A/QR/-X	TRANSISTOR		
Q6539	2SC3928A/QR/-X	TRANSISTOR		
Q6661	UN2112-X	DIGI TRANSISTOR		
Q6662	2SC3928A/QR/-X	TRANSISTOR		
Q6663	UN2212-X	DIGI TRANSISTOR		
Q6672	2SC3928A/QR/-X	TRANSISTOR		
Q6673	2SA1530A/QR/-X	TRANSISTOR		
D541	MA8100/M/-X	Z DIODE		
D551	MA8100/M/-X	Z DIODE		
D901	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
D903	PTZ11B-X	Z DIODE		
D904	PTZ6.8B-X	Z DIODE		
D2001	MA8100/M/-X	Z DIODE		
D2002	MA8100/M/-X	Z DIODE		
D2003	MA8100/M/-X	Z DIODE		
D2004	MA8100/M/-X	Z DIODE		
D2005	MA8100/M/-X	Z DIODE		
D2101	MA8100/M/-X	Z DIODE		
D2102	MA8100/M/-X	Z DIODE		
D2103	MA8100/M/-X	Z DIODE		
D2104	MA8100/M/-X	Z DIODE		
D2105	MA8100/M/-X	Z DIODE		
D2106	MA8100/M/-X	Z DIODE		
D2107	MA8100/M/-X	Z DIODE		
D2201	MA8100/M/-X	Z DIODE		
D2202	MA8100/M/-X	Z DIODE		
D2203	MA8100/M/-X	Z DIODE		
D2204	MA8100/M/-X	Z DIODE		
D2205	MA8100/M/-X	Z DIODE		
D2206	MA8100/M/-X	Z DIODE		
D2207	MA8100/M/-X	Z DIODE		
D2301	MA8100/M/-X	Z DIODE		
D2302	MA8100/M/-X	Z DIODE		
D2303	MA8100/M/-X	Z DIODE		
D2304	MA8100/M/-X	Z DIODE		
D2305	MA8100/M/-X	Z DIODE		
D2601	MA8100/M/-X	Z DIODE		
D2602	MA8100/M/-X	Z DIODE		
D2603	MA8100/M/-X	Z DIODE		
D2604	MA8100/M/-X	Z DIODE		
D2605	MA8100/M/-X	Z DIODE		
D2606	MA8100/M/-X	Z DIODE		
D6001	MA111-X	SI DIODE		
D6002	MA111-X	SI DIODE		
D6201	MA111-X	SI DIODE		
D6431	MA111-X	SI DIODE		
D6432	MA111-X	SI DIODE		
D6433	MA111-X	SI DIODE		
D6501	MA111-X	SI DIODE		
D6502	MA111-X	SI DIODE		
D6503	MA111-X	SI DIODE		
D6504	MA111-X	SI DIODE		
D6601	MA8062/M/-X	Z DIODE		
D6663	MA8033-X	Z DIODE		
D6664	MA111-X	SI DIODE		
D6671	MA8200-X	Z DIODE		
D6672	MA8200-X	Z DIODE		
D6673	MA8200-X	Z DIODE		
D6674	MA8200-X	Z DIODE		
D6681	MA111-X	SI DIODE		
D6682	MA111-X	SI DIODE		
D6683	MA111-X	SI DIODE		
DB201	MA8033-X	Z DIODE		
C201	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C202	NEH71HM-225X	E CAPACITOR	2.2uF 50V M	
C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C204	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C205	NEH71HM-105X	E CAPACITOR	1uF 50V M	
C206	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C207	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C208	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C301	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C302	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C303	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
C304	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
C305	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
C306	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C307	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C308	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C309	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C310	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C313	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C314	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C315	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C316	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C317	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C318	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	

⚠Ref No.	Part No.	Part Name	Description	Local
C319	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C321	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C322	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C323	QETN1AM-228Z	E CAPACITOR	2200uF 10V M	
C324	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C325	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C326	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C327	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C328	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C329	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C330	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C341	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C342	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C344	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C345	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C349	NEH71HM-106X	E CAPACITOR	10uF 50V M	
C372	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C382	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C392	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C403	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C404	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C405	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	
C406	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	
C501	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C502	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C503	NEN51EM-106X	BP E CAPACITOR	10uF 25V M	
C504	NEH71HM-106X	E CAPACITOR	10uF 50V M	
C505	NEN51EM-106X	BP E CAPACITOR	10uF 25V M	
C508	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C509	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C513	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C514	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C515	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C516	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C518	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C519	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C520	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C521	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C522	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C523	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C524	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C525	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C526	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C527	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C561	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C562	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C591	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C592	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C593	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C594	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C595	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C711	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C712	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C801	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C802	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C803	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C804	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C805	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C806	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C807	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C808	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C809	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	
C810	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C811	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C812	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C813	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C814	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C815	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C816	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C817	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C818	NEH71HM-106X	E CAPACITOR	10uF 50V M	
C819	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C820	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C821	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C822	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C823	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C824	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C825	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C826	NEH71EM-226X	E CAPACITOR	22uF 25V M	
C827	NEH70JM-107X	E CAPACITOR	100uF 6.3V M	
C829	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C830	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C831	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C832	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C833	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C834	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C835	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C850	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C851	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C852	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C853	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C854	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C855	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C856	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C857	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C858	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C859	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C860	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C861	NDC31HJ-681X	C CAPACITOR	680pF 50V J	
C862	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C863	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C864	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C865	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C866	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C868	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C869	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C870	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C872	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C873	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C874	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C875	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C876	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C877	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C878	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C879	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C880	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C881	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C882	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C883	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C884	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C885	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C886	NEH71HM-106X	E CAPACITOR	10uF 50V M	
C887	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C888	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C889	NEH71HM-106X	E CAPACITOR	10uF 50V M	
C890	NEH71HM-106X	E CAPACITOR	10uF 50V M	
C891	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C892	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C894	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C895	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C904	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C905	NEHM1CM-476X	E CAPACITOR	47uF 16V M	
C906	NEHM1CM-476X	E CAPACITOR	47uF 16V M	
C912	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C913	NEX51CM-335X	E CAPACITOR	3.3uF 16V M	
C914	NEX50JM-156X	E CAPACITOR	15uF 6.3V M	
C915	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C916	NEX50JM-156X	E CAPACITOR	15uF 6.3V M	
C2001	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C2005	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2006	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2008	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C2009	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C2010	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C2011	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C2051	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2052	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2053	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C2101	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C2105	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2106	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2107	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C2108	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C2109	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C2110	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C2151	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2152	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2153	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C2201	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2202	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C2203	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C2204	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2205	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2206	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C2207	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2208	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2301	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C2302	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C2303	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C2306	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2307	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C2308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2309	NCB31CK-105X	C CAPACITOR	1uF 16V K	

⚠Ref No.	Part No.	Part Name	Description	Local
C2310	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2311	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2401	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2402	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2451	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2452	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C2453	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C2601	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C2602	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C2603	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C6001	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C6002	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C6003	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C6004	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C6005	NEH71HM-105X	E CAPACITOR	1uF 50V M	
C6006	NEH71HM-105X	E CAPACITOR	1uF 50V M	
C6007	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C6008	NEH71HM-106X	E CAPACITOR	10uF 50V M	
C6009	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C6201	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6202	NEH71EM-336X	E CAPACITOR	33uF 25V M	
C6203	NEH71EM-336X	E CAPACITOR	33uF 25V M	
C6204	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6205	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6301	NEN51CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6302	NEN51CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6421	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6431	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C6505	NEH71EM-475X	E CAPACITOR	4.7uF 25V M	
C6510	NEH71EM-475X	E CAPACITOR	4.7uF 25V M	
C6517	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C6518	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C6521	NEH71EM-475X	E CAPACITOR	4.7uF 25V M	
C6522	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C6523	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C6525	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C6526	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6527	NEH71EM-475X	E CAPACITOR	4.7uF 25V M	
C6528	NEH71EM-475X	E CAPACITOR	4.7uF 25V M	
C6529	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C6530	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C6532	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C6533	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6534	NEH71EM-475X	E CAPACITOR	4.7uF 25V M	
C6535	NEH71HM-105X	E CAPACITOR	1uF 50V M	
C6535	NEHL1HM-105X	E CAPACITOR	1uF 50V M	
C6536	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6537	NEH71EM-475X	E CAPACITOR	4.7uF 25V M	
C6538	NEH71EM-475X	E CAPACITOR	4.7uF 25V M	
C6539	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6540	NEH71EM-475X	E CAPACITOR	4.7uF 25V M	
C6541	NEH71EM-475X	E CAPACITOR	4.7uF 25V M	
C6542	NEH71EM-475X	E CAPACITOR	4.7uF 25V M	
C6543	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C6544	NEH71HM-105X	E CAPACITOR	1uF 50V M	
C6545	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6546	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6551	NEH71HM-105X	E CAPACITOR	1uF 50V M	
C6552	NEH71HM-105X	E CAPACITOR	1uF 50V M	
C6553	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6554	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6555	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6556	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C6557	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C6559	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C6561	NEH71HM-105X	E CAPACITOR	1uF 50V M	
C6562	NEH71HM-225X	E CAPACITOR	2.2uF 50V M	
C6563	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6564	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6567	NCB11EK-105X	C CAPACITOR	1uF 25V K	
C6568	NCB11EK-105X	C CAPACITOR	1uF 25V K	
C6585	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C6586	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C6601	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C6602	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C6605	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C6621	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C6622	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6623	NEH71EM-226X	E CAPACITOR	22uF 25V M	
C6624	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6625	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6626	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6627	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6628	NEH71EM-226X	E CAPACITOR	22uF 25V M	
C6629	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6630	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6631	NCB31HK-222X	C CAPACITOR	2200pF 50V K	

⚠Ref No.	Part No.	Part Name	Description	Local
C6632	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C6661	NCB11EK-105X	C CAPACITOR	1uF 25V K	
C6662	NCB11EK-105X	C CAPACITOR	1uF 25V K	
C6663	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6664	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C6665	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6666	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C6667	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6668	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C6669	QFV21HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C6670	QFVE1HJ-474	MF CAPACITOR	0.47uF 50V J	
C6671	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C6672	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C6673	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6674	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C6675	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6676	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C6677	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C6678	QFV21HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C6679	QFVE1HJ-474	MF CAPACITOR	0.47uF 50V J	
C6680	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C6681	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C6682	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6683	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6684	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6685	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C6687	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C6688	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6691	NEH71HM-106X	E CAPACITOR	10uF 50V M	
C6692	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C6693	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
R201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R203	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R204	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R207	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R208	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R210	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R211	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R212	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R213	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R216	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R220	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R302	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R303	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R316	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R317	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R318	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R321	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R322	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R323	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R326	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R327	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R328	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R334	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R335	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R336	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R372	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R374	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R375	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R382	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R384	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R385	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R392	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R394	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R395	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R402	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R403	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R404	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R405	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R409	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R410	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R501	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R502	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R503	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R504	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R505	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R508	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R509	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R510	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R511	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R512	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R513	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R514	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R516	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	

⚠Ref No.	Part No.	Part Name	Description	Local
R517	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R518	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R520	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R521	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R522	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R523	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R524	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R527	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R529	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R530	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R531	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R532	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R533	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R534	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R535	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R536	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R537	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R538	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R539	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R540	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R542	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R543	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R544	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R545	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R552	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R553	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R554	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R556	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R561	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R564	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R565	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R566	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R567	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R568	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R571	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R572	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R573	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R574	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R575	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R576	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R577	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R578	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R579	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R580	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R581	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R582	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R587	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R589	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R591	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R592	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R593	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R594	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R595	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R596	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R597	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R711	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R712	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R714	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R716	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R718	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R719	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R720	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R721	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R722	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R801	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R802	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R803	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R804	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R805	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R806	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R807	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R808	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R809	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R810	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R811	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R812	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R813	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R814	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R815	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R816	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R817	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R818	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R819	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R820	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R821	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R822	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R823	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R824	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R825	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R826	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R827	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R828	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R829	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R830	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R831	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R832	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R833	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R834	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R835	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R836	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R837	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R838	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R839	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R840	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R851	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R852	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R853	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R854	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R855	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R856	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R859	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R860	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R861	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R862	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R863	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R864	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R865	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R866	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R867	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R869	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R873	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R874	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R876	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R877	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R879	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R883	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R884	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R885	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R886	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R887	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R888	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R889	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R893	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R907	NRS12BJ-0R0W	MG RESISTOR	0Ω 1/2W J	
R908	NRS12BJ-471W	MG RESISTOR	470Ω 1/2W J	
R909	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R917	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R2001	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2002	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2003	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2004	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2006	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R2051	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2052	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R2053	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2054	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2055	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R2056	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2057	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2058	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R2101	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2102	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2103	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2104	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2105	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2151	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2152	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R2153	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2154	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R2155	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2156	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2157	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R2158	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2159	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2160	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R2163	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2171	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2172	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2173	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

⚠Ref No.	Part No.	Part Name	Description	Local
R2201	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2202	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2203	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2204	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2205	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2301	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2302	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2303	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2304	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2305	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2401	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2402	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2451	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2452	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R2453	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2454	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2455	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R2456	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2457	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2458	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R2601	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2602	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2603	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2604	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R2605	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R6001	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6002	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6004	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R6005	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6006	QRL039J-330	OMF RESISTOR	33Ω 3W J	
R6201	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R6202	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R6203	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R6204	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R6205	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6301	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6302	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6303	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6304	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6305	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6306	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6308	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6309	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6310	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6409	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6423	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6424	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6425	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6431	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R6432	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6515	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6516	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6517	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6518	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6519	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6520	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6521	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6522	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6523	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6524	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6525	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6526	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6527	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6528	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6529	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6530	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6531	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6532	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6533	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6534	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6535	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6536	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6537	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6538	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6539	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6540	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6541	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6542	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6543	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6551	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R6552	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6553	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6554	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R6555	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6556	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6557	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R6558	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R6559	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R6560	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R6563	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R6564	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6567	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R6568	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6569	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R6577	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R6578	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R6579	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R6580	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R6601	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6602	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6603	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6605	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6606	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6607	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6617	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R6621	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6623	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R6624	QRJ149J-102	UNF C RESISTOR	1kΩ 1/4W J	
R6625	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6626	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R6627	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6629	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6630	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R6631	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6632	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R6633	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R6634	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6661	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6662	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6663	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R6664	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6665	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R6666	QRK129J-5R6	UNF C RESISTOR	5.6Ω 1/2W J	
R6667	QRK129J-220	UNF C RESISTOR	22Ω 1/2W J	
R6668	QRK129J-5R6	UNF C RESISTOR	5.6Ω 1/2W J	
R6669	QRK129J-220	UNF C RESISTOR	22Ω 1/2W J	
R6670	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R6671	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6673	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6674	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6675	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R6676	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6677	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6680	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6681	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R6682	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R6683	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6684	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6685	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R6686	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R6691	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
RB203	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
RB802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L201	NQL034K-101X	P COIL	100uH K	
L807	NQR0413-003X	FERRITE BEADS		
L808	NQR0413-003X	FERRITE BEADS		
L809	NQR0413-003X	FERRITE BEADS		
L851	NQL092K-6R8X	P COIL	6.8uH K	
L852	NQL092K-6R8X	P COIL	6.8uH K	
L853	NQL092K-6R8X	P COIL	6.8uH K	
L854	NQL092M-270X	P COIL	27uH M	
L855	NQL024J-560X	P COIL	56uH J	
L861	NQL914K-220X	COIL	22uH K	
L862	NQL914K-101X	COIL	100uH K	
L863	NQL914K-101X	COIL	100uH K	
L864	NQL914K-101X	COIL	100uH K	
L865	NQL914K-220X	COIL	22uH K	
L866	NQL914K-220X	COIL	22uH K	
L867	NQL914K-220X	COIL	22uH K	
L902	NQL52EM-220X	COIL	22uH M	
L903	NQL52EM-220X	COIL	22uH M	
L904	NQL52EM-220X	COIL	22uH M	
L6661	QQL28AK-560	COIL	56uH K	
L6662	QQL28AK-560	COIL	56uH K	
CN000H	QGF1201C2-19	CONNECTOR	FFC/FPC (1-19)	
CN0011	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	
CN0012	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	
J2001	QNZ0463-001	21P CONNECTOR	EXT-1	
J2002	QNZ0463-001	21P CONNECTOR	EXT-2	

⚠Ref No.	Part No.	Part Name	Description	Local
J2003	QNZ0726-001	AV JACK	EXT-3	
J2004	QNN0650-001	PIN JACK	EXT-4	
J2005	QNN0649-001	PIN JACK	AUDIO IN/OUT	
J2007	QNZ0561-001	D CONNECTOR	RGB IN	
K6601	NQR0413-002X	FERRITE BEADS		
K6602	NQR0413-002X	FERRITE BEADS		
K6661	NQR0413-002X	FERRITE BEADS		
K6662	NQR0413-002X	FERRITE BEADS		
K6663	NQR0413-002X	FERRITE BEADS		
K6664	NQR0413-002X	FERRITE BEADS		
TH6661	NAD0035-471X	P THERMISTOR	470Ω	
X201	CSB503F30-T2	C RESONATOR		
X801	NAX0621-001X	CRYSTAL	16.200MHz	

CONNECTOR P.W. BOARD ASS'Y (SFL-4022A-U2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC4201	SN74AHC1G08V-X	IC		
IC4801	MP1580HS-X	IC		
IC4901	MP1580HS-X	IC		
IC4902	PQ070XH02Z-W	IC		
D4201	MA8033-X	Z DIODE		
D4801	EC30HA03L-X	SB DIODE		
D4802	PTZ6.8B-X	Z DIODE		
D4901	EC30HA03L-X	SB DIODE		
D4902	PTZ3.9B-X	Z DIODE		
D4904	MA111-X	SI DIODE		
C4202	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C4210	QETN0JM-228Z	E CAPACITOR	2200uF 6.3V M	
C4211	QETN0JM-228Z	E CAPACITOR	2200uF 6.3V M	
C4801	NBZ0017-106X	SP E CAPACITOR	10uF 25V M	
C4802	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
C4804	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4805	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C4807	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C4808	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C4810	NBZ0008-107X	SP E CAPACITOR	100uF 6.3V M	
C4901	NBZ0017-106X	SP E CAPACITOR	10uF 25V M	
C4902	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
C4904	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4905	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C4907	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C4908	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C4910	NBZ0008-107X	SP E CAPACITOR	100uF 6.3V M	
C4911	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	
C4914	NBZ0008-107X	SP E CAPACITOR	100uF 6.3V M	
R4202	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R4203	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R4801	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R4803	NRSA63J-824X	MG RESISTOR	820kΩ 1/16W J	
R4804	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D	
R4805	NRSA63D-104X	MG RESISTOR	100kΩ 1/16W D	
R4806	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R4807	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4808	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R4809	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R4810	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R4813	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R4901	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R4902	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R4903	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R4904	NRSA63D-203X	MG RESISTOR	20kΩ 1/16W D	
R4905	NRSA63D-124X	MG RESISTOR	120kΩ 1/16W D	
R4906	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R4907	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4908	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R4909	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4910	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R4911	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R4913	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R4914	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R4921	NRS12BJ-0R0W	MG RESISTOR	0Ω 1/2W J	
L4802	NQL71EM-150X	COIL	15uH M	
L4902	NQL71EM-150X	COIL	15uH M	
CN0001	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	
CN0002	QGF0508F1-30X	CONNECTOR	FFC/FPC (1-30)	
CN000T	QGF0540C1-40X	CONNECTOR	FFC/FPC (1-40)	
CN1011	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	
CN1012	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	

FRONT CONTROL P.W. BOARD ASS'Y (SFL-7022A-U2)

⚠Ref No.	Part No.	Part Name	Description	Local
Q7701	UN2212-X	DIGI TRANSISTOR		
Q7705	UN2110-X	DIGI TRANSISTOR		
Q7706	UN2110-X	DIGI TRANSISTOR		
Q7709	UN2212-X	DIGI TRANSISTOR		
D7011	MA8062/M/-X	Z DIODE		
D7701	SML1216W	LED	POWER	
C7011	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7012	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
R7011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7012	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7013	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7014	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7015	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7701	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R7702	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7703	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R7704	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7711	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7714	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R7715	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R7717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
L7001	NQL092K-5R6X	COIL	5.6uH K	
L7002	NQL092K-5R6X	COIL	5.6uH K	
CN0008	QGB2542K1-08	CONNECTOR	B-B (1-8)	
J7001	QMS3004-C01	H.P.JACK	HEADPHONE	
K7001	NQR0389-003X	FERRITE BEADS		
S7701	QSW0797-001	TACT SWITCH	CH-	
S7702	QSW0797-001	TACT SWITCH	CH+	
S7703	QSW0797-001	TACT SWITCH	MENU	
S7704	QSW0797-001	TACT SWITCH	TV/AV	
S7705	QSW0797-001	TACT SWITCH	VOL+	
S7706	QSW0797-001	TACT SWITCH	VOL-	
S7707	QSW0797-001	TACT SWITCH	POWER	

FRONT SENSOR P.W. BOARD ASS'Y (SFL-8022A-U2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC8752	GP1UM281QK	IR DETECT UNIT	38kHz	
C8752	NEH71CM-476X	E CAPACITOR	47uF 16V M	
R8757	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8759	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
CN1008	QGB2542J1-08	CONNECTOR	B-B (1-8)	

POWER P.W. BOARD ASS'Y (SFL-9010A-U2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC9141	BA05FP-X	IC		
⚠IC9211	FA5500AN-W	IC		
IC9501	F9222L-F219	IC		
⚠IC9541	UTCTL431-T	IC		
IC9602	M62320FP-X	IC		
IC9603	SI-3025B-F1	IC		
IC9901	MP1580HS-X	IC		
Q9021	UN2211-X	TRANSISTOR		
Q9211	2SK3522-01-F1	POWER MOS FET		
Q9212	2SD601A/QR/-X	TRANSISTOR		

⚠Ref No.	Part No.	Part Name	Description	Local
Q9213	IMD3A-W	DIGI TRANSISTOR		
Q9215	2SD601A/QR/-X	TRANSISTOR		
Q9216	UN2212-X	DIGI TRANSISTOR		
Q9251	UN2213-X	DIGI TRANSISTOR		
Q9252	UN2212-X	DIGI TRANSISTOR		
Q9501	2SD601A/QR/-X	TRANSISTOR		
Q9502	2SK2071-01S-W	POWER MOS FET		
Q9503	2SD601A/QR/-X	TRANSISTOR		
Q9504	2SK2018-01S-W	POWER MOS FET		
Q9506	UN2213-X	DIGI TRANSISTOR		
Q9541	UN2212-X	DIGI TRANSISTOR		
Q9602	2SB1188/QR/-W	TRANSISTOR		
Q9603	UN2212-X	DIGI TRANSISTOR		
Q9901	2SD601A/QR/-X	TRANSISTOR		
D9021	MA111-X	SI DIODE		
D9111	S1WB/A/60-4101	BRIDGE DIODE		
⚠D9201	D25XB60	BRIDGE DIODE		
D9202	MA111-X	SI DIODE		
D9211	YG972S6R	SI DIODE		
D9213	MA111-X	SI DIODE		
D9214	MA111-X	SI DIODE		
D9215	D1FL20U-X	SI DIODE		
D9251	MA3100/M/-X	Z DIODE		
D9252	MA111-X	SI DIODE		
D9253	MA111-X	SI DIODE		
D9254	D1FL20U-X	SI DIODE		
D9501	MA8220/M/-X	Z DIODE		
D9502	MA8110/H/-X	Z DIODE		
D9503	D1FL20U-X	SI DIODE		
D9504	D1FL20U-X	SI DIODE		
D9505	MA8220/M/-X	Z DIODE		
D9507	D1FL20U-X	SI DIODE		
D9508	MA8056/M/-X	Z DIODE		
D9509	SD883-04-X	SB DIODE		
D9510	RD27E/B2/-T5	Z DIODE		
D9511	RD27E/B2/-T5	Z DIODE		
D9512	D1FS4-X	SB DIODE		
D9542	FMB-2306	SB DIODE		
D9543	FMB-2306	SB DIODE		
D9544	FME-220A	SB DIODE		
D9545	FME-220A	SB DIODE		
D9546	FMB-2306	SB DIODE		
D9605	D1FS4-X	SB DIODE		
D9901	EC30HA03L-X	SB DIODE		
D9902	MA111-X	SI DIODE		
D9905	D1FL20U-X	SI DIODE		
D9906	PTZ11B-X	Z DIODE		
D9907	RD16E/B/-T5	Z DIODE		
D9908	RD16E/B/-T5	Z DIODE		
D9909	D1FL20U-X	SI DIODE		
D9910	MA111-X	SI DIODE		
⚠C9001	QFZ9072-105	MM CAPACITOR	1uF AC250V K	
⚠C9002	QFZ9072-105	MM CAPACITOR	1uF AC250V K	
⚠C9011	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
⚠C9013	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
⚠C9101	QCZ9078-472	C CAPACITOR	4700pF AC250V M	
⚠C9102	QCZ9078-472	C CAPACITOR	4700pF AC250V M	
⚠C9103	QCZ9078-472	C CAPACITOR	4700pF AC250V M	
C9111	QEZ0709-106	E CAPACITOR	10uF 450V M	
C9141	QECR1CM-477Z	E CAPACITOR	470uF 16V M	
C9142	QEHR1AM-337Z	E CAPACITOR	330uF 10V M	
C9143	QEHR1CM-107Z	E CAPACITOR	100uF 16V M	
⚠C9197	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
⚠C9198	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
⚠C9201	QCZ9078-222	C CAPACITOR	2200pF AC250V M	
⚠C9203	QCZ9078-222	C CAPACITOR	2200pF AC250V M	
⚠C9204	QCZ9078-222	C CAPACITOR	2200pF AC250V M	
⚠C9205	QCZ9078-222	C CAPACITOR	2200pF AC250V M	
C9211	QFZ0222-105	MM CAPACITOR	1uF 450V K	
C9212	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9213	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C9214	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C9215	QEHR1VM-476Z	E CAPACITOR	47uF 35V M	
C9216	QEZ0650-227	E CAPACITOR	220uF 450V M	
C9218	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9221	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C9251	QEHR1HM-107Z	E CAPACITOR	100uF 50V M	
C9252	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C9501	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C9502	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C9503	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C9504	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C9505	NCB11EK-474X	C CAPACITOR	0.47uF 25V K	
C9506	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C9507	NCB31HK-472X	C CAPACITOR	4700pF 50V K	

⚠Ref No.	Part No.	Part Name	Description	Local
C9508	NCB11AK-335X	C CAPACITOR	3.3uF 10V K	
C9509	QECR1VM-227Z	E CAPACITOR	220uF 35V M	
C9510	QEHR2AM-107Z	E CAPACITOR	100uF 100V M	
C9511	QFZ0209-393	MPP CAPACITOR	0.039uF 1000VH H	
C9541	QECQ1EM-188	E CAPACITOR	1800uF 25V M	
C9544	QECQ1EM-188	E CAPACITOR	1800uF 25V M	
C9545	QECQ1EM-188	E CAPACITOR	1800uF 25V M	
C9546	QECR1EM-687Z	E CAPACITOR	680uF 25V M	
C9547	QECR1EM-687Z	E CAPACITOR	680uF 25V M	
C9550	QEHQ1EM-228	E CAPACITOR	2200uF 25V M	
C9551	NCB11EK-474X	C CAPACITOR	0.47uF 25V K	
C9552	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C9606	QEHR1HM-106Z	E CAPACITOR	10uF 50V M	
C9608	QEHR1EM-107Z	E CAPACITOR	100uF 25V M	
C9609	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C9610	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C9611	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C9902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9903	QECR1CM-477Z	E CAPACITOR	470uF 16V M	
C9904	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C9906	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C9907	NCB31EK-273X	C CAPACITOR	0.027uF 25V K	
C9908	QEHR2AM-106Z	E CAPACITOR	10uF 100V M	
C9909	QEHR1HM-106Z	E CAPACITOR	10uF 50V M	
C9910	QECR1VM-227Z	E CAPACITOR	220uF 35V M	
C9911	QRK126J-151X	UNF C RESISTOR	150Ω 1/2W J	
C9912	QEHR1CM-477Z	E CAPACITOR	470uF 16V M	
C9913	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
C9914	QTNC1HM-106Z	E CAPACITOR	10uF 50V M	
C9915	NCB11EK-104X	C CAPACITOR	0.1uF 25V K	
C9917	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
⚠R9001	QRZ9046-105Z	C RESISTOR	1MΩ 1/2W K	
R9101	QRZ0216-4R7	UNF WW RESISTOR	4.7Ω 7W K	
R9141	QRX01GJ-1R0	MF RESISTOR	1Ω 1W J	
R9142	QRX01GJ-R82	MF RESISTOR	0.82Ω 1W J	
⚠R9199	QRZ0107-685Z	C RESISTOR	6.8MΩ 1/2W K	
⚠R9202	QRZ9055-8R2	FUSI RESISTOR	8.2Ω 2W K	
R9203	MTZJ8.2C-T2	Z DIODE		
R9211	NRS12BJ-474W	MG RESISTOR	470kΩ 1/2W J	
R9212	NRS12BJ-474W	MG RESISTOR	470kΩ 1/2W J	
R9213	NRS12BJ-334W	MG RESISTOR	330kΩ 1/2W J	
R9214	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R9215	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R9216	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R9217	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R9218	NRSA63D-183X	MG RESISTOR	18kΩ 1/16W D	
R9219	NRS12BJ-223W	MG RESISTOR	22kΩ 1/2W J	
R9220	QRM059J-R27	MP RESISTOR	0.27Ω 5W J	
R9221	QRM059J-R15	MP RESISTOR	0.15Ω 5W J	
R9222	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J	
R9223	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J	
R9224	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J	
R9225	NRS12BJ-334W	MG RESISTOR	330kΩ 1/2W J	
R9226	NRS12BJ-334W	MG RESISTOR	330kΩ 1/2W J	
R9227	NRS12BJ-394W	MG RESISTOR	390kΩ 1/2W J	
R9228	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9229	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	
R9233	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R9236	NRS12BJ-474W	MG RESISTOR	470kΩ 1/2W J	
R9237	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9238	NRS12BJ-220W	MG RESISTOR	22Ω 1/2W J	
R9239	NRS12BJ-1R0W	MG RESISTOR	1Ω 1/2W J	
R9251	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R9253	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R9254	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9255	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R9256	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R9257	NRS12BJ-102W	MG RESISTOR	1kΩ 1/2W J	
R9501	QRL039J-103	OMF RESISTOR	10kΩ 3W J	
R9502	QRL039J-682	OMF RESISTOR	6.8kΩ 3W J	
R9503	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J	
R9504	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J	
R9505	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J	
R9506	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9507	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9508	QRT029J-R56	MF RESISTOR	0.56Ω 2W J	
R9509	QRM059J-R39	MP RESISTOR	0.39Ω 5W J	
R9510	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9511	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R9512	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R9513	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R9514	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R9515	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
⚠R9516	QRZ9009-2R2	FUSI RESISTOR	2.2Ω 1/2W J	
R9517	NRS12BJ-332W	MG RESISTOR	3.3kΩ 1/2W J	
R9518	QRK126J-271X	UNF C RESISTOR	270Ω 1/2W J	

⚠Ref No.	Part No.	Part Name	Description	Local
R9519	NRSA02J-180X	MG RESISTOR	18Ω 1/10W J	
R9520	QRE121J-105Y	C RESISTOR	1MΩ 1/2W J	
R9521	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R9525	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R9526	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R9529	QRL039J-561	OMF RESISTOR	560Ω 3W J	
R9541	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9542	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R9543	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R9544	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D	
R9545	NRSA63D-221X	MG RESISTOR	220Ω 1/16W D	
R9546	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9548	NRSA63D-272X	MG RESISTOR	2.7kΩ 1/16W D	
R9549	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R9551	QRE141J-0R0Y	C RESISTOR	0Ω 1/4W J	
R9552	QRE141J-0R0Y	C RESISTOR	0Ω 1/4W J	
R9602	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9615	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R9616	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R9617	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R9618	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R9620	NRSA63D-822X	MG RESISTOR	8.2kΩ 1/16W D	
R9622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9623	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D	
R9624	NRSA63D-331X	MG RESISTOR	330Ω 1/16W D	
R9625	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R9629	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9631	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R9632	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R9635	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R9637	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9640	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R9643	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R9644	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9646	NRS12BJ-0R0W	MG RESISTOR	0Ω 1/2W J	
R9647	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R9901	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9902	NRSA63D-104X	MG RESISTOR	100kΩ 1/16W D	
R9903	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R9904	NRSA63D-184X	MG RESISTOR	180kΩ 1/16W D	
R9905	QRK126J-332X	UNF C RESISTOR	3.3kΩ 1/2W J	
R9906	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R9907	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R9908	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9910	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R9911	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R9913	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9916	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R9923	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L9141	NQL52EN-4R7X	COIL	4.7uH N	
L9201	QQR1399-001	CHOKE COIL		
L9202	QQR1513-001	CHOKE COIL		
L9541	NQL71EM-150X	COIL	15uH M	
L9902	NQL80CL-100X	COIL	10uH L	
L9903	NQL80CL-100X	COIL	10uH L	
L9904	NQL63EM-470X	COIL	47uH M	
⚠T9121	QAL0425-001	POWER TRANSF		
⚠T9501	QQS0319-001	SW TRANSF		
⚠T9502	QQS0319-001	SW TRANSF		
CN0006	QGB2501J1-13	CONNECTOR	B-B (1-13)	
CN000H	QGF1201C2-19	CONNECTOR	FFC/FPC (1-19)	
CN00E1	CE41507-001P	LV CONNECTOR		
⚠CP9121	QMFZ052-2R0-E	FUSE	2A AC250V	
⚠CP9211	QMFZ043-2R0Z-J1	FUSE	2A AC250V	
⚠CP9501	QMFZ034-5R0Z-J1	FUSE	5A 125V	
⚠CP9502	QMFZ034-5R0Z-J1	FUSE	5A 125V	
⚠F9001	QMF51D2-6R3-J1	FUSE	6.3A AC250V	
K9001	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J	
K9212	QQR0621-002Z	FERRITE BEADS		
K9501	NQR0413-002X	FERRITE BEADS		
K9502	NQR0413-002X	FERRITE BEADS		
K9503	NQR0413-002X	FERRITE BEADS		
K9504	NQR0413-002X	FERRITE BEADS		
K9505	NQR0413-002X	FERRITE BEADS		
K9508	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K9541	NQR0413-003X	FERRITE BEADS		
⚠LF9001	QQR1514-001	LINE FILTER		
⚠LF9002	QQR1467-001	LINE FILTER		
⚠LF9003	QQR1514-001	LINE FILTER		
⚠PC9541	PS2581AL1/QW/	IC(PHOT COUPLE		
⚠PC9542	PS2581AL1/QW/	IC(PHOT COUPLE		
⚠RY9021	QSK0119-001	RELAY		
⚠RY9201	QSK0117-001	RELAY		
⚠VA9001	QAF0060-621	VARISTOR	620V	

REGULATOR P.W. BOARD ASS'Y (SFL-9110A-U2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC9802	MP1580HS-X	IC		
IC9803	MP1583DN-X	IC		
Q9802	2SD601A/QR/-X	TRANSISTOR		
Q9803	2SD601A/QR/-X	TRANSISTOR		
D9803	SD883-04-X	SB DIODE		
D9804	MA111-X	SI DIODE		
D9805	MA3051/M/-X	Z DIODE		
D9806	SD883-04-X	SB DIODE		
D9807	PTZ6.8B-X	Z DIODE		
D9808	MA111-X	SI DIODE		
D9810	PTZ6.8B-X	Z DIODE		
D9813	MA111-X	SI DIODE		
C9805	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
C9806	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9809	NEHM1HM-105X	E CAPACITOR	1uF 50V M	
C9810	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
C9812	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C9813	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9814	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	
C9818	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9819	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C9821	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C9822	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
C9823	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9824	NCB11EK-104X	C CAPACITOR	0.1uF 25V K	
C9826	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
R9810	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9811	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9812	NRVA02D-473X	CMF RESISTOR	47kΩ 1/10W D	
R9813	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R9814	NRSA63D-124X	MG RESISTOR	120kΩ 1/16W D	
R9815	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R9816	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R9817	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R9818	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9819	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R9820	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R9821	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9822	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D	
R9823	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R9824	NRSA63D-124X	MG RESISTOR	120kΩ 1/16W D	
R9825	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9826	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R9827	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R9828	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9830	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R9831	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
L9804	NQL71EM-150X	COIL	15uH M	
L9806	NQL71EM-150X	COIL	15uH M	
L9807	NQL80CL-100X	COIL	10uH L	
CN1006	QGB2501K2-13	CONNECTOR	B-B (1-13)	

DIGITAL SIGNAL P.W. BOARD ASS'Y (LCA10428-62B) (SFL-0D204A)

⚠Ref No.	Part No.	Part Name	Description	Local
IC0401	SN74AHCT1G32V-X	IC		
IC1001	TC90A92AFG	IC		
IC1002	MM1572FN-X	IC		
IC1502	NJM2235V-X	IC		
IC3001	JCC5055	IC		
IC3403	S-80928CLNB-W	IC		
IC3501	K4D263238F-UC50	IC		
IC3502	K4D263238F-UC50	IC		
IC3503	LP2996MR-X	IC		
IC4001	JCC5057	IC		
IC4003	AT29LV01-26D50BJ	IC(MICRO C ROM)	(SERVICE)	
IC4004	ATE256-32D50BJ1	IC	(SERVICE)	
IC6502	THC63LVDM83R-W	IC		
IC7001	MN102H60KLD	IC(MCU)		
IC7002	ATE256-32D50BJ2	IC	(SERVICE)	
IC7401	S-80828CLNB-W	IC		
IC7501	SDA6000-B12	IC		
IC7502	S-80828CNNB-W	IC		

⚠Ref No.	Part No.	Part Name	Description	Local
IC7503	K4S641632H-UC75	IC		
IC7504	MBV160-26D50BJ	IC(MICRO C ROM)	(SERVICE)	
IC7505	PQ2L3252MS-X	IC		
IC7506	CD74HC4053PW-X	IC		
IC7602	ATE32-32D50BJ	IC	(SERVICE)	
IC9001	MP1580HS-X	IC		
IC9101	MP1580HS-X	IC		
IC9201	MP1580HS-X	IC		
Q0101	2SC3837K/NP/-X	TRANSISTOR		
Q0102	2SA1022/BC/-X	TRANSISTOR		
Q0104	2SA1022/BC/-X	TRANSISTOR		
Q0105	2SC3928A/QR/-X	TRANSISTOR		
Q0107	2SA1530A/QR/-X	TRANSISTOR		
Q0108	2SC3928A/QR/-X	TRANSISTOR		
Q0109	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q0110	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q0201	2SC3837K/NP/-X	TRANSISTOR		
Q0202	2SA1022/BC/-X	TRANSISTOR		
Q0203	2SC3928A/QR/-X	TRANSISTOR		
Q0204	2SA1022/BC/-X	TRANSISTOR		
Q0205	2SC3928A/QR/-X	TRANSISTOR		
Q0207	2SA1530A/QR/-X	TRANSISTOR		
Q0208	2SC3928A/QR/-X	TRANSISTOR		
Q0209	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q0210	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q0301	2SC3837K/NP/-X	TRANSISTOR		
Q0302	2SA1022/BC/-X	TRANSISTOR		
Q0303	2SC3928A/QR/-X	TRANSISTOR		
Q0304	2SA1022/BC/-X	TRANSISTOR		
Q0305	2SC3928A/QR/-X	TRANSISTOR		
Q0307	2SA1530A/QR/-X	TRANSISTOR		
Q0308	2SC3928A/QR/-X	TRANSISTOR		
Q0309	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q0310	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q1001	UN2213-X	DIGI TRANSISTOR		
Q1003	2SC3928A/QR/-X	TRANSISTOR		
Q1004	2SA1530A/QR/-X	TRANSISTOR		
Q1101	2SC3928A/QR/-X	TRANSISTOR		
Q1103	2SA1530A/QR/-X	TRANSISTOR		
Q1201	2SC3928A/QR/-X	TRANSISTOR		
Q1203	2SA1530A/QR/-X	TRANSISTOR		
Q1301	2SC3928A/QR/-X	TRANSISTOR		
Q1303	2SA1530A/QR/-X	TRANSISTOR		
Q1401	2SC3928A/QR/-X	TRANSISTOR		
Q1403	2SA1530A/QR/-X	TRANSISTOR		
Q3001	2SC3928A/QR/-X	TRANSISTOR		
Q3002	2SA1530A/QR/-X	TRANSISTOR		
Q3003	2SC3928A/QR/-X	TRANSISTOR		
Q3004	2SA1530A/QR/-X	TRANSISTOR		
Q6501	2SC3928A/QR/-X	TRANSISTOR		
Q6502	2SC3928A/QR/-X	TRANSISTOR		
Q7201	2SA1530A/QR/-X	TRANSISTOR		
Q7202	2SC3928A/QR/-X	TRANSISTOR		
Q7203	2SC3928A/QR/-X	TRANSISTOR		
Q7204	2SC3928A/QR/-X	TRANSISTOR		
Q7205	2SC3928A/QR/-X	TRANSISTOR		
Q7206	UN2213-X	DIGI TRANSISTOR		
Q7207	DTA144EKA-X	DIGI TRANSISTOR		
Q7501	2SA1162/YG/-X	TRANSISTOR		
Q7508	DTC114EKA-X	DIGI TRANSISTOR		
D1001	EC30HA03L-X	SB DIODE		
D1002	EC30HA03L-X	SB DIODE		
D7001	MA111-X	SI DIODE		
D7003	MA111-X	SI DIODE		
D7005	MA8082/M/-X	Z DIODE		
D7006	MA8082/M/-X	Z DIODE		
D7007	MA8082/M/-X	Z DIODE		
D7008	MA8082/M/-X	Z DIODE		
D7009	MA8082/M/-X	Z DIODE		
D7010	MA111-X	SI DIODE		
D7201	MA111-X	SI DIODE		
D7203	MA111-X	SI DIODE		
D7210	RB501V-40-X	SB DIODE		
D7501	MA111-X	SI DIODE		
D7502	MA111-X	SI DIODE		
D9001	EC30HA03L-X	SB DIODE		
D9003	PTZ3.9B-X	Z DIODE		
D9101	EC30HA03L-X	SB DIODE		
D9102	EC30HA03L-X	SB DIODE		
D9103	PTZ3.9B-X	Z DIODE		
D9104	MA111-X	SI DIODE		
D9201	EC30HA03L-X	SB DIODE		
D9203	PTZ3.9B-X	Z DIODE		
D9204	MA111-X	SI DIODE		

⚠Ref No.	Part No.	Part Name	Description	Local
C0103	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C0105	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C0107	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0109	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0110	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0111	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C0112	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C0113	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0114	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0115	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0116	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0117	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C0118	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C0203	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C0205	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C0207	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0209	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0210	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0211	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C0212	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C0213	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0214	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0215	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0217	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C0218	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C0303	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C0305	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C0307	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0309	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0310	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0311	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C0312	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C0313	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0314	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0315	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0317	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C0318	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C0401	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1005	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C1006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1009	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C1010	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C1011	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C1012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1014	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1015	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1016	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C1017	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1018	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1019	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1021	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1023	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1025	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1026	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1028	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1029	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1030	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1031	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1032	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1033	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1034	NDC31HJ-390X	C CAPACITOR	39pF 50V J	
C1035	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C1037	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1038	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1039	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1040	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1041	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C1042	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1043	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1046	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1047	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1048	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C1049	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1050	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C1051	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C1061	NDC31HJ-4R0X	C CAPACITOR	4pF 50V J	
C1062	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	
C1063	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C1064	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1065	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1066	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	
C1102	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1103	NDC31HJ-330X	C CAPACITOR	33pF 50V J	

⚠Ref No.	Part No.	Part Name	Description	Local
C1104	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C1105	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	
C1106	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1109	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C1202	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1203	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1204	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C1205	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	
C1206	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1209	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C1302	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1303	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1304	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C1305	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	
C1306	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1309	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C1402	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1403	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1404	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C1405	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	
C1406	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1409	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C1502	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
C1508	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	
C1509	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1511	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
C3004	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3006	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3008	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3009	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3010	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3016	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3018	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3019	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3021	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3022	NBZ0007-107X	SP E CAPACITOR	100uF 4V M	
C3023	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3028	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C3030	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3031	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3032	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3037	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3040	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3041	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C3042	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3043	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C3044	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3045	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3047	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3049	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3051	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C3052	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C3056	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C3059	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C3060	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C3063	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3065	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3066	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3067	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3068	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3069	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3070	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3071	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3072	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3074	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3076	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3097	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C3101	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C3105	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C3111	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3126	NDC31HJ-390X	C CAPACITOR	39pF 50V J	
C3406	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C3501	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C3503	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C3506	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C3507	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C3508	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C3509	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C3511	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C3515	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3516	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C3517	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C3518	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3519	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3524	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3527	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C3530	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3531	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3532	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C3533	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C3535	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C3539	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C3540	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C3542	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C3543	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3548	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3549	NBZ0007-107X	SP E CAPACITOR	100uF 4V M	
C3550	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C3551	NBZ0007-107X	SP E CAPACITOR	100uF 4V M	
C3552	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C4002	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C4003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C4005	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C4006	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C4008	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	
C4009	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C4010	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C4011	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	
C4012	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C4013	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C4016	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C4020	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C4022	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C4023	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C4029	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4030	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4901	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4906	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4907	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4908	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4909	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4910	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4911	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4913	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4914	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4915	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4916	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4917	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4919	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4920	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4921	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4922	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4923	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4925	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4926	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4931	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4932	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4933	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4934	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4935	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4936	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4937	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4938	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4939	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4940	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4941	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4942	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6013	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6014	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6015	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6512	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6514	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6515	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6516	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6520	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6521	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6522	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C6523	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C7001	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C7002	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C7003	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	
C7006	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C7007	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C7010	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C7011	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C7012	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C7017	NDC31HJ-391X	C CAPACITOR	390pF 50V J	
C7018	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C7025	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7201	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C7202	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠Ref No.	Part No.	Part Name	Description	Local
C7203	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7401	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7402	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C7501	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7502	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7503	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7504	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7505	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7506	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7507	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7508	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7509	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7510	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C7511	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7512	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7513	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7514	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7515	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7516	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C7517	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C7518	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C7520	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7521	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C7522	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C7523	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C7524	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C7525	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7526	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7527	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7528	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7529	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7530	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7531	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C7532	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7533	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7534	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C7535	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7541	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C7542	NEH70GM-227X	E CAPACITOR	220uF 4V M	
C7543	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C7544	NEH70JM-107X	E CAPACITOR	100uF 6.3V M	
C7545	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C7546	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C7547	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C7548	NEH70GM-227X	E CAPACITOR	220uF 4V M	
C7550	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C7552	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C7553	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C7616	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C9002	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
C9004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9005	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C9007	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C9008	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C9010	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C9012	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C9102	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
C9104	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9105	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C9106	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
C9107	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C9108	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C9111	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C9112	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C9202	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
C9204	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9205	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C9207	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C9209	NEZ0022-157X	E CAPACITOR	150uF 10V M	
C9211	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C9212	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
R0105	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0106	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R0107	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R0109	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R0110	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0114	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0116	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0121	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0122	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R0125	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R0126	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R0127	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0128	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R0129	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

⚠Ref No.	Part No.	Part Name	Description	Local
R0131	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0132	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0133	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0134	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0137	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R0138	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R0140	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R0141	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0205	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0206	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R0207	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R0208	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R0209	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R0210	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0211	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0214	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0216	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0219	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0221	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0222	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R0225	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R0226	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0227	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R0228	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R0229	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R0231	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0232	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0233	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0234	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0237	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R0238	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R0240	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R0241	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0305	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0306	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R0307	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R0308	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R0309	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R0310	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0311	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0314	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0316	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0319	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0321	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R0322	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R0325	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R0326	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0327	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R0328	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R0329	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R0331	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0332	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0333	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0334	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0337	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R0338	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R0340	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R0341	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R0501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0506	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0507	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0508	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0516	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0517	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0520	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0522	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0523	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0524	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0525	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R0527	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1001	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	
R1002	NRSA63D-101X	MG RESISTOR	100Ω 1/16W D	
R1003	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1004	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1006	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1007	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1010	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R1011	NQL093K-R10X	P COIL	0.1uH K	
R1012	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R1013	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R1014	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1017	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1018	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

⚠Ref No.	Part No.	Part Name	Description	Local
R1021	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1101	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R1102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1104	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1105	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R1106	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R1107	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R1113	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1201	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R1203	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1204	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1205	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R1206	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1207	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R1213	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1301	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R1303	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1304	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1305	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R1306	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1307	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R1313	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1401	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R1403	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1404	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1405	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R1406	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1407	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R1413	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1523	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
R1524	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R1525	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1584	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2010	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3001	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3004	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3018	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J	
R3019	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J	
R3020	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J	
R3021	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D	
R3022	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R3023	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R3024	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3028	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3029	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D	
R3030	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D	
R3031	NRSA63D-151X	MG RESISTOR	150Ω 1/16W D	
R3032	NRSA63J-5R6X	MG RESISTOR	5.6Ω 1/16W J	
R3033	NRSA63J-5R6X	MG RESISTOR	5.6Ω 1/16W J	
R3034	NRSA63J-5R6X	MG RESISTOR	5.6Ω 1/16W J	
R3036	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3037	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R3038	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3040	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	
R3041	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3042	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	
R3043	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R3044	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R3045	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R3047	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R3048	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R3053	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R3054	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3056	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3063	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3064	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3065	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3066	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3069	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3070	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3071	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3089	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R3090	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R3091	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R3092	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R3093	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R3094	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3095	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3096	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3097	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3098	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3099	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3100	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3101	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3102	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3103	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3104	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3105	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3106	NRS144J-0R0X	MG RESISTOR	0Ω 1/4W J	
R3122	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R3126	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3131	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3151	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3152	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3153	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3155	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3157	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3159	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3160	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3161	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3163	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3164	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3165	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3166	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3167	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3168	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3169	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3170	NRS144J-0R0X	MG RESISTOR	0Ω 1/4W J	
R3171	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3178	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3181	NRS144J-0R0X	MG RESISTOR	0Ω 1/4W J	
R3207	NRS144J-0R0X	MG RESISTOR	0Ω 1/4W J	
R3502	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3503	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3505	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3507	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3509	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3511	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3514	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3516	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3518	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3520	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3522	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3524	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3525	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3527	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3529	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3531	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3533	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3536	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3538	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3540	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3542	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R3544	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	
R4004	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4008	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4015	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4016	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4023	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4024	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4027	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4035	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4037	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4039	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4041	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4042	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4044	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4046	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4055	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4056	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4057	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4058	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4059	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4060	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R4061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4064	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4065	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4068	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4104	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

⚠Ref No.	Part No.	Part Name	Description	Local
R4105	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4108	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4152	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6025	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6028	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6031	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6034	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6036	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6038	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6039	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6040	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6043	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6048	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6057	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6058	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6059	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6507	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6510	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6512	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6513	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6514	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6515	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6521	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6529	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6531	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6532	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6533	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6534	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6536	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6537	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6538	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6540	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6541	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6542	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6544	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6548	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6550	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6558	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7001	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7004	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7005	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7006	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7007	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7008	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7010	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7011	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7014	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7015	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7016	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7017	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7021	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7022	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7023	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7024	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7025	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7026	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7029	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7031	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7033	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7034	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7035	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7038	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7039	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7040	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7041	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7042	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7043	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7046	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7047	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7048	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7049	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7057	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7058	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7059	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R7060	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7061	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R7063	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R7064	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7065	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7066	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7067	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R7068	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7069	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7070	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7071	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7077	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7078	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7079	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7080	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7081	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7082	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7085	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7086	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7087	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7088	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7089	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7090	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7091	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R7092	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R7093	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7094	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7095	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7096	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7097	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7098	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7099	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7100	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7101	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R7106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7107	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7108	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7109	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7110	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7111	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7112	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7115	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7118	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7120	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7123	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7132	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7134	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R7135	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R7136	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7137	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7140	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7143	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7144	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
R7145	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
R7146	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
R7148	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7149	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7150	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7151	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R7152	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R7153	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7158	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7159	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7202	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R7203	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R7204	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7205	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7206	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7207	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7208	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7209	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R7210	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7211	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7212	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7213	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7215	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R7216	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7401	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7404	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7501	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7510	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7511	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7514	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7515	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7518	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7553	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7556	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7557	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R7558	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7559	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7560	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7561	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	

⚠Ref No.	Part No.	Part Name	Description	Local
R7565	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7566	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R7567	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R7568	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R7576	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7588	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R7590	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7599	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7602	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7603	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7692	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7701	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7705	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7706	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7707	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7708	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R7709	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7710	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7711	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7712	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7716	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7717	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7718	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7719	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R7720	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7721	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7722	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7723	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7724	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7725	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7726	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7727	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7728	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R9001	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9003	NRSA63D-203X	MG RESISTOR	20kΩ 1/16W D	
R9004	NRSA63D-124X	MG RESISTOR	120kΩ 1/16W D	
R9005	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R9006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9008	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R9101	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9103	NRSA63D-203X	MG RESISTOR	20kΩ 1/16W D	
R9104	NRSA63D-223X	MG RESISTOR	22kΩ 1/16W D	
R9105	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R9106	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9107	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9108	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9109	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R9201	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9202	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9204	NRSA63D-272X	MG RESISTOR	2.7kΩ 1/16W D	
R9205	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R9206	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R9207	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9208	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R9209	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R9210	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
RA1001	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1002	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1003	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA3002	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA3004	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA3013	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4	
RA3014	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4	
RA3015	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4	
RA3016	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4	
RA3018	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
RA3020	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
RA3022	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
RA3023	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
RA3024	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
RA3025	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
RA3026	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
RA3028	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
RA3030	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
RA3032	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
RA3502	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
RA3506	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
RA3508	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
RA3512	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
RA3516	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
RA3518	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
RA3521	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
RA3523	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
RA3526	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
RA3530	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
RA3531	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
RA3536	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
RA3540	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
RA3542	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
RA3545	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
RA3547	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
RA4007	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA4008	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA4009	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA4010	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA4011	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA4012	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA6515	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
RA7007	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RB2001	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
RB2002	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
RB2003	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
L0101	NQL092K-2R2X	P COIL	2.2uH K	
L0102	NQL092K-1R0X	P COIL	1uH K	
L0201	NQL092K-2R2X	P COIL	2.2uH K	
L0202	NQL092K-1R0X	P COIL	1uH K	
L0301	NQL092K-2R2X	P COIL	2.2uH K	
L0302	NQL092K-1R0X	P COIL	1uH K	
L0401	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L1001	NQR0489-002X	FERRITE BEADS		
L1002	NQR0489-002X	FERRITE BEADS		
L1003	NQL092K-1R5X	P COIL	1.5uH K	
L1004	NQR0489-002X	FERRITE BEADS		
L1005	NQR0489-002X	FERRITE BEADS		
L1006	NQR0489-002X	FERRITE BEADS		
L1008	NQL79GM-220X	COIL	22uH M	
L1010	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L1011	NQL79GM-470X	COIL	47uH M	
L1101	NQL092K-6R8X	P COIL	6.8uH K	
L1102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L1103	NQL092K-1R0X	P COIL	1uH K	
L1201	NQL092K-6R8X	P COIL	6.8uH K	
L1203	NQL092K-1R0X	P COIL	1uH K	
L1301	NQL092K-6R8X	P COIL	6.8uH K	
L1303	NQL092K-1R0X	P COIL	1uH K	
L1401	NQL092K-6R8X	P COIL	6.8uH K	
L1403	NQL092K-1R0X	P COIL	1uH K	
L1501	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3001	NQR0489-002X	FERRITE BEADS		
L3005	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3006	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3008	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3009	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3010	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3012	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3501	NQR0413-003X	FERRITE BEADS		
L4001	NQR0413-003X	FERRITE BEADS		
L4002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L4003	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L6501	NQR0351-001X	FERRITE BEADS		
L6502	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L6508	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
L6509	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
L6510	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
L7001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7501	NQL092K-4R7X	P COIL	4.7uH K	
L7502	NQL092K-4R7X	P COIL	4.7uH K	
L7503	NQL092K-4R7X	P COIL	4.7uH K	
L7504	NQL092K-4R7X	P COIL	4.7uH K	
L7505	NQL092K-4R7X	P COIL	4.7uH K	
L7506	NQL914M-4R7X	COIL	4.7uH M	
L7507	NQL092K-4R7X	P COIL	4.7uH K	
L7508	NQL092K-4R7X	P COIL	4.7uH K	
L7509	NQL092K-4R7X	P COIL	4.7uH K	
L7510	NQL092K-4R7X	P COIL	4.7uH K	
L7511	NQL092K-4R7X	P COIL	4.7uH K	
L7512	NQL914M-4R7X	COIL	4.7uH M	
L7513	NQL914M-4R7X	COIL	4.7uH M	

⚠Ref No.	Part No.	Part Name	Description	Local
L7514	NQL092K-4R7X	P COIL	4.7uH K	
L9001	NQL71EM-150X	COIL	15uH M	
L9101	NQL71EM-150X	COIL	15uH M	
L9201	NQL71EM-150X	COIL	15uH M	
CN001	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	
CN002	QGF0508F1-30X	CONNECTOR	FFC/FPC (1-30)	
K1001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1004	NQR0489-002X	FERRITE BEADS		
K3003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K3006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K7002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K7501	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
K7502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K7503	NQR0389-003X	FERRITE BEADS		
LC0102	NQR0483-005X	EMI FILTER	100uF 25V Z	
LC0519	NQR0416-001X	EMI FILTER	240pF 16V M	
LC0524	NQR0415-005X	EMI FILTER	0.1uF 25V M	
LC0525	NQR0470-003X	EMI FILTER	100pF 50V +50%-20%	
LC6501	NQR0479-001X	EMI FILTER		
LC7501	NQR0313-007X	EMI FILTER	1000pF 50V M	
LC7502	NQR0431-001X	EMI FILTER	0.22uF 50V Z	
SL7001	NAX0613-001X	C RESONATOR		
X1001	NAX0642-001X	CRYSTAL		
X3001	NAX0635-001X	CXO		
X3003	NAX0668-001X	CXO		
X4001	NAX0669-001X	C RESONATOR		
X7501	NAX0618-001X	CRYSTAL		

RECEIVER P.W. BOARD ASS'Y (SFL0F202A-U2)

⚠Ref No.	Part No.	Part Name	Description	Local
IC3501	MSP3415GQGB8V3M	IC		
IC3503	HA17558AF-X	IC		
IC3504	BA80BC0FP-X	IC		
IC3505	NJU26901E2-W	IC		
IC3506	MC74VHC1GT125TX	IC		
IC3507	SN74LVC1G125V-X	IC		
IC3508	SN74LVC1G125V-X	IC		
IC3509	SN74LVC1G125V-X	IC		
IC3510	R1141Q251B-X	IC		
Q3001	2SC3928A/QR/-X	TRANSISTOR		
Q3502	2SC3928A/QR/-X	TRANSISTOR		
Q3503	UN2213-X	DIGI TRANSISTOR		
C3001	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C3002	NEH71HM-106X	E CAPACITOR	10uF 50V M	
C3003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3004	NEX60JM-227X	E CAPACITOR	220uF 6.3V M	
C3005	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C3007	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3008	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3009	NEH71HM-106X	E CAPACITOR	10uF 50V M	
C3010	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3011	NEH71HM-106X	E CAPACITOR	10uF 50V M	
C3012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3014	NEH71HM-106X	E CAPACITOR	10uF 50V M	
C3015	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3501	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C3502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3503	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3504	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3511	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3512	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3513	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	
C3514	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	
C3515	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3516	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C3517	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3518	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C3519	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C3520	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C3521	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C3522	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C3523	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C3524	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C3525	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C3526	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3527	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3528	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C3529	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C3530	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C3531	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3532	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3533	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3534	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3535	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3536	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C3537	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3544	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C3546	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C3551	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C3552	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C3553	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C3554	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C3555	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C3556	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C3559	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C3560	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C3571	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C3572	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C3573	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3574	NCB11AK-106X	C CAPACITOR	10uF 10V K	
R3002	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3003	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3006	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3007	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3009	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3010	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3014	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3015	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3017	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3018	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3111	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3508	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3512	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3513	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3514	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3515	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3516	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3517	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3518	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3519	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3520	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3521	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3546	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3547	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3551	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R3552	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R3553	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3554	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3555	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3556	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3557	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3558	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3559	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R3560	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R3561	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3562	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3563	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3564	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3572	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3573	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3574	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3575	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3576	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3577	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3578	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3579	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3580	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3581	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3582	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3583	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3584	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3585	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
L3001	NQL79GM-220X	COIL	22uH M	
L3002	NQL79GM-100X	COIL	10uH M	
L3003	NQL79GM-220X	COIL	22uH M	
L3503	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3504	NQL79GM-4R7X	COIL	4.7uH M	
L3506	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	

⚠Ref No.	Part No.	Part Name	Description	Local
L3507	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3508	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3509	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K3501	NQR0389-003X	FERRITE BEADS		
K3502	NQR0389-003X	FERRITE BEADS		
LC3501	NQR0431-001X	EMI FILTER	0.22uF 50V Z	
⚠TU3001	QAU0387-001	TUNER		
X3501	QAX0773-001Z	CRYSTAL	18.432000MHz	

REMOTE CONTROL UNIT PARTS LIST (RM-C1813H-1C)

⚠	Ref No.	Part No.	Part Name	Description	Local
		2AA070311	BATTERY COVER		

PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	001	AEM1002-095-E	PACKING CASE		
	002	AEM1165-001A-U	CUSHION ASSY	4pcs in 1set	
	003	LCT1504-001A-U	CAUTION SHEET		
	004	AEM1067-001A-E	FOAM BAG		
	005	----------	BATTERY	R6P/AA(x2)	
	006	RM-C1813H-1C	REMOCON UNIT	Inc.POLY BAG	
	007	AEM3021-003B-E	DOCUMENT BAGS		
	008	----------	WARRANTY CARD	BT-54023-1E	
⚠	009	LCT1703-001B-U	INST BOOK	English	
	010	AEM1066-064-E	EURO LABEL		

PACKING

